



United States
Environmental Protection Agency
Region 10

DREDGED MATERIAL MANAGEMENT PLAN AND ENVIRONMENTAL IMPACT STATEMENT

McNary Reservoir and Lower Snake River Reservoirs

APPENDIX O Responses to Comments on Draft DMMP/EIS

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This final Dredged Material Management Plan/Environmental Impact Statement (DMMP/EIS) presents the Corps of Engineers' programmatic plan for maintenance of the authorized navigation channel and certain publicly owned facilities in					
the lower Snake River reservoirs between Lewiston, Idaho and the Columbia River, and McNary reservoir on the Columbia					
River for 20 years; for management of dredged material from these reservoirs; and for maintenance of flow conveyance					
capacity at the most upstream extent of the Lower Granite reservoir for the remaining economic life of the dam and reservoir					
project (to year 2074). The Corps, along with the U.S. Environmental Protection Agency, analyzed four alternatives for this					
Final DMMP/EIS: Alternative 1 - No Action (No Change) - Maintenance Dredging With In-Water Disposal; Alternative 2 -					
Maintenance Dredging With In-Water Disposal to Create Fish Habitat and a 3-Foot Levee Raise; Alternative 3 - Maintenance					
Dredging With Upland Disposal and a 3-Foot Levee Raise; and Alternative 4 - Maintenance Dredging With Beneficial Use of					
Dredged Material and a 3-Foot Levee Raise (Recommended Plan/Preferred Alternative).					
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DREDGED MATERIAL MANAGEMENT PLAN AND ENVIRONMENTAL IMPACT STATEMENT

McNARY RESERVOIR AND LOWER SNAKE RIVER RESERVOIRS

APPENDIX O

RESPONSE TO PUBLIC COMMENTS ON DRAFT DREDGED MATERIAL MANAGEMENT PLAN AND ENVIRONMENTAL IMPACT STATEMENT

U.S. Army Corps of Engineers Walla Walla District 201 N. 3rd Avenue Walla Walla, WA 99362

July 2002

1.0 Introduction

The Corps received comment documents (letters and e-mails) from 26 agencies, Tribes, organizations or individuals, in response to the draft DMMP/EIS.

The Corps carefully reviewed each of the comment documents to identify the specific comments and concerns raised by the public. The individual comments were noted within each document. The Corps then carefully considered each of the comments, and prepared responses to the comments. Where appropriate, the Corps revisited and/or revised the documentation, data, and/or analysis that were presented in the Draft DMMP/EIS.

Presented below are the comment documents and responses to comments received on the Draft DMMP/EIS. The individual comments are identified and numbered, and responses are presented following the letters. For the responses, comment text that was representative of the individual comments was extracted from the comment documents. In some instances, the extracted text represents only a part of the text of the comment provided in the document. Therefore, the complete documents are provided. The Corps considered the full context of each comment and has responded accordingly.

The comment documents and comment responses are organized as follows:

- Federal Agencies
 - U.S. Environmental Protection Agency, Region 10
- State Agencies
 - O Idaho Department of Environmental Quality
 - O Idaho Department of Fish and Game
 - O Idaho State Parks and Recreation
 - Washington Department of Ecology
 - Washington Department of Fish and Wildlife
 - Washington State Department of Transportation
 - Washington State Parks and Recreation Commission
- Local Governments/Entities
 - O City of Clarkston
 - City of Lewiston
 - Lewiston Parks and Recreation Department
 - Port of Clarkston
 - Port of Lewiston
- Tribes and Tribal Organizations
 - Confederated Tribes of the Umatilla Indian Reservation
 - Confederated Tribes and Bands of the Yakama Indian Nation
 - Columbia River Inter-Tribal Fisheries Commission
 - Nez Perce Tribal Executive Council
- Organizations
 - American Waterways Operators
 - Columbia Towboat Association

U.S. Army Corps of Engineers Walla Walla District

- O Lewiston and Clarkston Chamber of Commerce
- Linblad Expeditions
- Shaver Transportation
- Save Our Wild Salmon Coalition
- Individuals
 - O Mark Babino
 - Larry Gannon
 - Patrick Whitehall

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 10 1200 Sixth Avenue Seattle, Washington 93101

Ament BCO-088

U.S. Army Corps of Engineers lack Sands, Project Manager

201 North 3" Avenue Walls Walk, Wathington 99362-1876

Dear Mr. Sands:

Environmental largest Statement (EES) for the proposed Dredged Misterial Management Flan for the McNary Reservoir and the Lower Saake River Reservoirs (CEQ No. 010434) in accordance with our authorities and responsibilities under the National Environmental Policy Act (NEPA) and Soction 309 of the Clean Air Act. The draft SIS has been prepared by the U.S. Army Corps of Engineers to evaluate long-range options for maintenance of the navigation channel from Lower Grante reservoir through the McNary reservoir. The arth EIS identifies an alternative to conduct maintenance dredging in all reservoirs in the project area and disposing of the sediments in a beauficial manner as the Corps of Engineers' preferred alternative. The preferred alternative would also involve raising levers in the The Eqvironmental Protection Agency (BPA) has completed its review of the draft vicinity of Lewiston, Idaho and Clarkston, Washington.

establishment of a Local Sedunent Management Group (LSMC) as an integral component of the development, implementation, and evaluation of the plan. We believe that using this group will teach in a plan that will likely meet the needs and/or requirements of a wide range of stakeholders with an interest in We would like to voice our support of the efforts of the Walls Walls District for developing a long-term (20 year) plan for managing sediment behind the Lower Stake River dams and the McNary dam and the desire to use daviged materials in a beneficial manner. We believe that development of the plan will result in a more systematic and predictable approach to managing sediment in the project area than the present approach of drodgings on a sa-needed basis. Furtharmore, we support the commitment to pursue a plan that would use drodging on a sa-needed basis. Furtharmore, we support the commitment to pursue a plan that would use drodged material in a beneficial manner as it would reduce the environmental effects associated with the current approach being used. We also fully endorse the how the river is managed and/or the resources that would be affected by management practices.

Management Plan (DMMP), we have some significant concerns with the currently proposed plan, embodied in the preferred alternative, and the content of the EIS. The areas where we have major While we are supportive of the efforts being takes in developing the Drodged Material concerns are highlighted below and discussed in detail in the enclosure to this letter. Lack of a Sedimant Reduction Strategy - We are concerned that the plan does not include a strategy for reducing the input of sediment into the project area. We recommend that the DMMPEIS be revised to include a sediment enduction strategy as an integral component.

Proposed Creation of Salmonid Habitat - Que assessment of the druk HIS leads us to conclude that the creation of more shallow-water habitat woold likely result in adverse effects to aquatic

oneditions in the project area. We recommend that the EIS be revised to support the assertion that the proposed creation of laborat would besetts submands. See p. 2

Sediment Characterization - Natriants, nanganose, total dichlorodiphenytrical foroctane (DDT), and dionia TEQ (tonce equivalency quotient) enceeded maintain sediment quality cris and are considered themselved concern. The EIS about he princed to demonstrate that the enceeded maintain from behind the Lower Grazite dam are suitable for in-water disposal and/or terration of salaton. Definit.

Lecal Sediment Management Group (LSMG) - The EIS should be revised to clearly indicate whether or not this group has been formed. We recommend that the objectives (as well as the compositions) of the LSMG be expanded to address sources of actiment and their control.

These issues, along with others that we believe and to be addressed in the ELS, are discussed in greater detail in the enclosient to this letter. Should significant new information be developed in responding to comments of the draft ELS, a supplemental draft EIS would be the appropriate mechanism for informing the public and the decision makes of alternatives to, and potential consequences of, action to be taken by the Corps of Engineers on the proposed action.

Based on our review and evaluation, we have assigned a rating of EO-2 (Eavlroamental Objections-Insufficient Information) to the draft EIS. This rating, and a summary of our commonta, be published in the Federal Register. A copy of the rating system used in conducting our review is encloand for your refer We are interested in working closely with the Corps of Engineers in successfully resolving the issues we have identified. I supp you be contact Bill Riyes of my staff at (206) 553-1551 or John Malek in our Sediment Management Program (206-553-1246) at your earliest opportunity to discuss our comments and bow they might best be addressed for the project.

Thank you for the opportunity to provide comments on the draft EIS.

Geographic Implementation Unit

CONCURRENCE PAGE

Druiged Mistrial Management Plan - McNary Reservoir and Lo-Druik Ehrinomental Langes Suscenses i piet

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Jennery 22, 2002 Date: WordPortest 9 File Name:

New Address

LPA Comments on the Dradged Material Management Thu and Environmental Impact Statem MaNay Reserveir and Lower Seaks River Reserveirs

Sediment Reduction Strategy

The objective of developing the Dradged Material Management Plan (DadaRP) is to establish a program to manage sediment in a manaer that maintainn ravigation and flow conveyance of the Lower Granie reservoir, and defines the management strategy for dragged materials over the film barken of the plan. As presently proposed, the DMARP would address identified sedimentation problems emalsarially by dredging metasials that socumalate in the project sur. Thou conveyance behind the Lower Carriat Dam would be addressed exclusively by raising levee heights near the confluence of the State and Clearwater Rivers. Both approaches are focused on the "symptom" (sedimentation) and ignore the caused) of the problems that the plan is attempting to alleviate. A significant omission from the currently proposed plan (and abstrative to it is a strategy for reducing addiment inputs that ultimately effect at a strategy for reducing addiment inputs that ultimately effect a combination of all reservable approaches available to reduce and control sediment, as well as methods for dredging and managing dredged maintrials.

See 2

The development of the DMMP provides a unique opportunity to address both the cause(s) of the problem as well as the "symptom" through the coupling of a addinent control strategy and a management strategy that designing and the disposal of developed materials. The U.S. Geological Survey has estimated that mearly 24 calling how of sediment are transported annually into the project area by the Saake and Clearwater Rivers. Reducing the amount of addinents entering the project area would result in a reduction is the amount of droughing (and sediments entering the project area would result in a reduction is the amount of droughing (and sediment of the Lower Granice Dam would also sasist in maintaining flow covervyance above the dam as sedimentation would be reduced. Through the reduction of sediment inputs over the lifetime of the DMME, we believe that the amount of materials needing to be drouged (as well as the frequency of dredging) would be reduced, as would the associated effects.

Because we believe that the reduction of sediment inputs upstream of the McNary Dam and the Lower Snake River Dams is fundamental to the nocess of the DMAP. We recommend that the DMAPAPELS be revised to include a sediment reduction strategy as an integral component. We recommend that the nediment reduction strategy include, at a minimum, the collowing components:

See 3

destification of the key stakeholders involved in developing the strategy

Specific actions svaliable for reducing sediment input
Identification of entities responsible for implementing sediment reducing actions
Assessment of potential sediment reductions associated with identified reduction

Assessment of implications of reduced sedimentation on expected dredging volumes, frequency of dredging, and disposal approaches

0-2

habitat. In this scenario, a mixture of fine material and eand would be placed in mid-water area to raise the river bottom to create an underwater shelf about-10 feet below the final grade. The second step would be to place sand on top of the tandrill embankment. The sand cap layer would be created with a minimum thickness of 10 feet. The final step would be to use a beam of salmon tabitat as the primary beneficial use of dradged naterial. In-water beneficial disposa of dredged material in the lower Stake River reservoirs is proposed to mise mid-depth benches in the reservoirs to shallow-water benches in an attempt to create and enhance fish-rearing fing to flatten and level the tops of the mounds to form a flat, gently aloping shallow area.

written, we do not believe that the EIS provides sufficient information to demonstrate that the proposed "creation of salmon habitat" ultimately represents a beneficial use by providing habitat and squarite conditions that would ultimately benefit alimon. We believe that there are a mambel of connections to a large to provide the proposed DMARP late on one appear to fave been factored into the analyses presented in the draft BIS. The BIS should be revised to more fully analyze and disclose the proteint of the fare of the proposed DMARP, as required by the implementing regulations for NPPA (see 40 CFR 1500.1 and 1502.16). presented to 1) support the impact characterizations presented in the BIS or 2) substantiate the claims that the creation of the shallow-water benches would benefit salmon. As presently EPA has a number of concerns with the proposed approach and the level of analyses

more shallow-water habitat would likely result in adverse effects to equatic conditions in the project aces. The implementation of the proposed plan to "create fish habitat" would likely increase so loss habitating of the reservoirs, primary production, and result in negative of the reservoirs, primary production, and result in negative of the reservoirs, primary production, and result in negative of the contraction of the cont Specifically, our assessment of the draft EIS leads us to conclude that the creation of

Salmonid Habitat

Cold-water resident and anadromous species that were once common in the Columbia and Snake Rivers have declined since the construction of the dams and have been replaced by cool- and warm-water species. Species composition has changed due to the blockage of spawning migrations and modification of habitats.

streams, where water flow is high. Because of their size, they are able to spawn in larger gravel than most other stanon. During the winder, juvenile epring chinock prefer rivarian defeas where vegetation has grown into the stream, providing to over and shalter. Streambanks must be covered with vegetation to provide this type of habitat, and broken or degraded streambanks do not provide suitable habitat for juvenile othnock. Juvenile Salmonid species differ in the type of habitat that they prefer. Most chirook spawn in large rivers such as the Columbia and the Snake. They tend to spawn in the mainstem of

coke prefer eddies or backwatess near an undercut bank, root wad or log. In the winter they are found in deep pools or side channel areas that effer rocks, logs and debris for cover. Juvenile steelkeed stay in relatively shallow, cobble-bottomed areas at the tail of a pool or shallow riffle in the first summer after hatching. In winter, they hide under large boulders in shallow riffles. Older sreethead juveniles prefer the heads of pools and riffles with large boulder substrate and woody cover in the summer. During the winter, older steelkeed juveniles are found in pools, near streamaide cover and under doorie, logs or boulders.

The proposal to bury fine sediments under 10 fact of eard and dragging a beam to flatten and level the tops of the mounds to form a flat, genity stoping shallow area does not appear to be an approach that would result in the development of desirable babitut for salmonist. The smooth send arribes would provide no topographical relief. There would be to babitat for the send arribes would provide no topographical relief. There would not be not send to the send proven the gravital and provent water from percolating drough, causing both fish and macroinvertebrate mortality.

The Riparina Habitat Subcommittee of the Oregon and Wathington Interagency Committee stated that no more than 15 percent of stream substrate about be covered by inorganic sediment. The report also states that if pools are filled with sediments, rearing and sheltering habitat for javonile asimon is reduced or climinated. The EIS should evaluate effects of the DMAR against these criteria.

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Bull trout have also been reported in the lower Snake River since 1991. Bull trout, also lighted as the transfer the RSA, are found primarily in colder streams. Water imperature above 50°F is believed to limit bull trout distribution. Bull trout require a spawning substance of loose, clean gravel relatively free of fine sediments."

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Creating more shallow-water habitat would increase warmer shallow water in all of the lower Snake River reservoirs to the detriment of cold water salmonid and to the benefit of their warm water predators. Of the current resident ichthyofiuna of the reservoirs, about half are native species and half are introduced. Warm water species are generally more abundant in shallow, slower-velocity backwater anna, with native tiverine species occurring in abundantly in areas with flowing water. Base (Micropterus spp.), Crapple (Pomonis spp.), Bluegill (Lepomis spp.), yellow perch (Percs, flavescens) and carp (Cyprimus carpic) prefer low wester velocity, warmer water, finer substrate, and submerged and emergent vegetation.

minnow, chamel catilat, craples, and yellow porch. Currently, water temperatures are below optimum throughout the growing season for all predatory "resident game fish." Of these, the most important predators of juvenile asimonids are bass, northern pike The implementation of the proposed plan would likely result in adverse effects to salmonids by creating better conditions for their predators.

See 3

juvenile salmonida, since they are not fund on the substrate or in the biological drift.
These insects burrow into the substrate and create "I" thaped transfs in the sand where they circulate water with their gills. This current that they create, serves as a conveyor of food forms for the insect. As a result of this life style - of living in, rather then on, the substrate - their availability as a food source for salmonids only occurs during emergence, Macroinvertebrates are classified into facting guilds. These feeding guilds are substrate specific. Sand is the pocuest autherne maseful for macroinvertehms production, giving the to a chastification known as "burrowers". Burrowers are a poor food source for which occurs only once every one to three years.

As the draft EIS acknowledges, benthic macroinvertebrates that are commonly consumed by salmonides in the lower State River and McNary are associated with hard substrates. At the present time, it is the riprup that provides sainable hard substrate for macroinvertebrates and crayfalt in the fower State River and McNary reservoirs. Covering the riprup with sand would remove this valuable habitat and its macroinvertebrates.

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Temperature

Decreasing depth increases solar heating and stream temperatures. The lower Snake River already experiences high temperatures that also account for the elevated temperatures that also account for the elevated temperature in the mainstern of the Columbia River (including Lake Wallola behind McNary Dam) 2

Water temperature in the study area varies by time of the year and location. The monthly average water temperature for the months of July, August and September at the USGS gauge at Annione in the Lewiston area, was 70.0, 71.1, and 66.27 respectively, while the maximum daily temperatures for the months of June, July, August were 70.0, 74.8, 75.7, and 74.7F

increase is allowed by all sources when the stream is 667 or fear. In Washington State, for most Class A waters, no increase over 647 due to lumma activity is allowed. However, for specific Class A water classifications such as the Columbia and Snake Rivers, higher temperatures of 667 are allowed. In the Columbia and Snake River above Columbia River, outside of an assigned mixing zone, when the water temperature is at or above 68°F. When the river is 67.5°F or less, the Oregon assidand dictates that no more than a 0.5°F increase is allowed due to a single source discharge. No more than a 2°F The EPA and the States of Idaho, Oragon, and Washington have established surhos water criteris or standards for the Snake and Columbia River Basin. Bach state has different thermal criteria. Idaho DEQ specifies the most restrictive criteria for salmonid spawning, with maximum water temperatures set at 55T with daily averages no greater the confluence with the Clearwater River, no increase 0.54% caused by human activity than 48.2 F. The present standard for Oregon allows no temporature increases in the

can occur from a single source, or no increases over 277 from all activities when the stream is over 68°F.

See 10

Dissolved Orogen Concentration

Distolved oxygen concentrations are linked to temperature and flow. Dissolved oxygen values throughout the Stake River ranged from 6.4 to 13.3 ppm. In the animare months, where there is a reduced flow and increased temperature, fow dissolved oxygen concentrations are found in the slack water even of the dam foretay and sloughs. Vashington Department of Ecology has listed the lower State River impaired by low dissolved oxygen under the provisions and pursuant to Section 303(d) of the Clean Water Act. Increased water temperature caused by increased sofar heating of the shallow water beaches would faither diminish the stready low summertime dissolved oxygen concentration. potentially resulting in fish deformations and flatter fith mortality. =

The everage pH in the upper Stake River is signify above 8 pH units, while the lower portion of the Stake River average slightly below that value. The pH on the Columbia between the Snake River confluence and McNery dam is 8.2 pH units. The high values are similated to the natural geological conditions and the artificial conditioning of the

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Most of the sediment is also very rich in nitrogenous compounds, with the dominant species of nitrogen in the sediment being semmonia. The Shake River sediments average 60 to 80 ppm of ammonia. The effects of the higher pH enacethate the ammonia problems that are encountered in most of the sediment management areas.

High external un-ionized anumonia concentrations reduce or reverse diffusive gradient and cause a build up of emeronia in gill trasses of fish. Un-ionized emmonia toologiy correlates positively with temperature and hard water. 2

Sediment Characterization

2

EPA is concerned that sediment sampling in the Lower Grazite reservoir (where the greatest amount of dradging would take place) twosts that approximately 95 percent of the sediments being deposited are time-grained materials. Since the Snake Kiver flows through an use dominated by agricultural sup, these sediments tend to be highly excited with organic mirrogen compounds and other authors. The sediments have small smoutes of herbicides and pesticides, low levels of dioxin, and a few beavy meals. Matrient, manganese, total dichloroschane (DDT), and dioxin TEQ (toxic equivalency quorient) succeeded minimum sediment quality criteria and are considered chemicals of concern. Resign upon the

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current information, EPA questions the feasibility of using this material for in-water disposal or the creation of salmon habitet enhancement. The EIS should be revised to demonstrate that the dredged materials from behind the Lower Grants dam are soitable for in-water disposal and/or the oceation of salmon habitet.

Lecal Sediment Management Greep

has already been formed or whether it is yet to be formed. Much of the discussion is the EIS eaggests that the LSMG has not yet been formed, yet states that the group has provided input into the development of the DMACP. The EIS should be revised to clearly indicate whether or not this group has been formed, the EIS should be revised to clearly indicate whether or not this group has been formed. We the EIS should identify the members of the group has been formed that the Fixed in the development of the piput into fix have provided to the development of the plan. If it has not been formed, we recommend that the Corps convene the LSMG and utilize their input in the further development of the plan. The draft EIS is not clear as to whether the Local Sediment Management Group (LSMG)

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We see the establishment and operation the LSMG as a critical component of a successful strategy for managing sediment in the project area and strongly support he formation. Based on discussion in the deat BLS, it appears that the present direction of the group is focused on dredging and sediment management issues activities. An equal, if not more important, consideration in meeting the project purpose and need to develop a program that maintains the authorized navigation channel and flow conveyance of the Lower Granite reservoir relates to reducing the project purpose and need to develop a program that maintains the authorized navigation channel and flow conveyance of the LSMG be expanded to address sources of sediment and their control. We also recommend that memberships of the LSMG be expanded to include agencies/entilies that have jurisdiction and/or are capable of influencing activities and practices that controlling scotters and states will sufficient the densification and evaluation of opportunities for controlling sediment inputs at their source and thereby reduce the amount of materials that would need to be dredged and disposed of.

The EIS should expand the discussion of the LSMG to include a description of the group's role in decision-making processes by the Corps (or others) secondated with managing sealment in the project are. It is not clear what types of decisions would be made or by whom, nor is the role of the LSMG clearly defined with respect to those decisions. This should be explained in the EIS. 9

any successful adentive management strategy is the design, implementation, and interpretation of an affective, well designed monitoring plan. We recommend the monitoring plan for the DMAP be designed monitoring plan. We recommend the monitoring plan for the DMAP are designed supported in the series in monitoring the LSMG who will be supported to the DMAP. The LSMG should also have a role in the implementation and interpretation of the results of monitoring conducted. This will ensure that appropriate adjustments to the plan can be made (if deemed necessary), based on a broad-based evaluation of the monitoring results. The presently proposed plan seems to rely heavily on an adaptive management approach to sodiment issues in the Lower Snake river and behind the McNary Dam. A critical element in

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A critical element in any successful adaptive management strategy is the design, implementation, and interpretation of an effective, well designed monitoring plan. We are concerned that the monitoring plan was not presented for public review in the draft ELS as the aucosas of the DMRO, will rely heavily on the animar is which plan performance is monitored. We believe that providing the public with an opportunity to assist in developing and refaining the monitoring component of the ELS said is should include a public involvement someonitar the monitoring plan be included in the ELS said is should include a public involvement someonitar the effort the public involvement someonitar in effort the public involvement someonitar.

Alternatives Eliminated from Detailed Review

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detailed consideration and evaluation because they do not represent complete, stand-alone solutions to the sedimentation in the process of the Lower consideration because they do not represent complete, stand-alone solutions to the sedimentation problems in the project area. At the proposed management plan is introded to set forth a program to manage sediment in a manumer that maintains savigizing, flow conveyuose of the Lower Grantie reservely, and defines the sunagement strategy for dredged materials over the time horizon of the plan, we believe that the plan should uttimately reflect a combination of all resecuable approaches available to relate and control sediment, as well as methods for dredging an sanding materials. Sociolo 2 of the dredge, as well as the the dredged materials. Sociolo 2 of the dredge in an expense of the dredges of the disposal of dredged materials. The E1S also indicates that the use of bandaway weirs represents an environmentally sensitive approach for reducing elementaries and maintenance coats. Both of these alternatives have been eliminated elements. practical or feasible for the exito project (fordaway weits). EPA does not believe that the draft EIS presents sufficient information/analyses to support the cimination of these approaches from detailed evaluation. Our concerns with eliminating these options are presented below. because they either do not represent a complete solution (the "land use" alternative) or are not

Change Upstream Land Uses and Land Maragement Practices to Control Sediment

While we agree that changing upstream land uses is "not a complete solution to maintain navigation." We believe that evaluating this critical component is a necessary part of the development of a plan to accountfully and effectively minimain the surfactived navigation channel and flow conveyance of the Lower Grants reservoir. Consequently, the evaluation of options for reducing sedimentation should be evaluated as an integral Grante reservoir, two printery objectives of the meangement plan. Based on information presented in the draft BLS, control of sediment from non-impated exopland alone could potentially reduce the amount sediment transported in the Lower Grante reservoir by roughly 37 percent (approximately \$50,000 ton/year). Given the potential to significantly component of all alternatives in the EIS. As shown in Table 1-1, materials dredged from the Lower Granite reservoir account for roughly 76 percent of the total volunes dredged in the project area between 1977 and 1999. This indicates that reducing sediment inputs into the Clearwaker and Snake Rivers upstream of the confluence (thereby reducing the need to dredge) is critical to managing navigation and flow conveyance of the Lower

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reduce sediment inputs into the Lower Granks reservoir (and the associated need to dredge), we recommend that the E15 be revised to include an evaluation of potential changes to upstream land use practices as they relate to controlling sediment.

Use of Bondoway Weirs

before determining its familility. We believe an evaluation of potential locations for the use of bendaway weirs (along with necessay analyses/modeling) should be conducted as part of the development of the proposed management plan as the use of the west sould potentially reduce the need to dredge and dapose of dredged managing. The use of this technology, if found to be feasible, should be used in combination with dredging and the The draft EIS suggests that the use of bendaway weirs in specific locations could provide an enviconmentally sensitive method of reducing streembark erosion and redirect sediment flow to reduce maintenance (dvolging) conts, yet this approach appears to have been rejected from farther consideration because additional analysis would be required control of sediment sources to improve the effectiveness of the proposed management

71

Beselfcial Uses of Dradged Material

We fully support the development of a Dredged Material Management Plan (DMALP) that employs a tensing 70 of disposing of dredged material in a beneficial manner. To achieve that some yet recommend that the proposed DMALP and EllS be revised to more clearly describe the manner in which the presently preferred attentive (Attentive 9) would be implemented and demonstrate that the beneficial uses identified are indeed beneficial (particularly the creation of salmon habital). Section 2 of the draft ElS describes as number of beneficial uses that would or Section 2.8.5.1 presents a very brief description of the presently-proposed process which we believe tacks a critical component, a discussion of the role of the LSMG in developing, evaluating, and ultimately advising the Corps about selection and implementation of the beneficial uses. The role of the LSMG should be described in the E13 as it relates to the oritical could be pursued with the implementation of Alternative 4, but there is little discussion of the process that would be used to determine whether potential beneficial uses would be implement and how relative priorities would be determined should there be "competing" beneficial uses. function of determinating and implementing beneficial uses.

23

Conducting Drudging and Disposal Operations during Flab Windows
Information exists that indicates tellmoulds are in the Lower States River veg-round. As
a consequence, statements in the 183 that intensets would be realisted because work would be
conducted during windows when saltmon would not be around do not appear to be trapported.
We recommend that the ELS be revised to discuss this states and include additional
discussion/analysis to support the conschaion that impacts to saltmon would be negligible.

Baseline Water Quality Information

7,

We are concerned with the lack of information, or reliance on very old data (circa 1973), used to characterize current (baseline) water quality conditions in the draft E18. In order to develop meaningful evaluations of potential effects to water quality/aquatic resources from the

proposed activities (in this case, sediment management, dredging and disposal), it is critically important to establish current besaline conditions. We are particularly concerned that the approach proposed to be taken to address these data deficiencies has been defirmed stall dredging activities have been scheduled or are already underway. 24 cont.

develop a mensingful strutegy for managing dradged marerial, ver recommend that current baseline information related to nucrients, toxic substances and saliabriconductivity in Lake Waltilds and saliabriconductivity and toxic substances upstream of the Lower Grenite dam be stillered and presented in the Eds. Additionally, conditioned relations on the 1979 where Chality Report (or other dased reshences) should be accompanied with a discussion of how the dase contained in the report are relevant and applicable to the current structor. This is critically important when the date reported are menty 30 years old and were gathered before all the dams Securso an understanding of current conditions and predicted effects are required in the project area were in place and operating.

23

Government-to-Government Censultation with Tribes

The draft EIS provides fittle evidence that required government-to-government consultations with affected Tribus have been conducted. Further development of the plan and EIS should be conducted in consultation with the governing bodies of affected Tribus, consistent with EO 13175 (Consultation and Coordination with Infalls Tribus Governments) which states that the U.S. government will continue "to work with Indian tribus on a government—to-government basis to address issues concerning Indian tribul self-government, trust resource, and Indian tribul self-government, strust resource, and Indian tribul self-government should be documented and reported in the EIS.

Environmental Justice Amalysis

2

Extracordina control and the draft BIS presents a very general discussion of Executive Order (EO) 12398 (Faderal Actions to Address Environmental Justice in Advantly Populations and Low-Income Fapulations) and the proposed plan, the BIS presents no evidence that the necessary analyses have been conducted. (dendication of potential impacts and mitigation measures, developed in consultation with affected minority and/or low income populations, must be included in the BIS to meet the direction of EO 1239s and the accompanying memorandum form President Clinton to the heads of all Departments and Agencies. The Environmental Justice analysis presented in the EIS should include the following three major components:

dentification (including mans) of all low iscome and people of color communities in the This should include a description of the methodology and crimis utilized for identifying analyses, and references utilized for establishing the criteria. Note: If 1990 U.S. Centus data are utilized, the ELS needs to discuss any short falls that may result from utilizing this data set, and/or what steps were taken to easure the data is still appropriate for 2002 the low income and people of color communities, the sources of data utilized for these tree that would be impacted by the proposed project

22

26 cont.

would be disproportionately higher those impacts on non-low income and non-people of color communities. For each a determination, the EIS must identify a reference exponence, and impacts to cultural, historic and protected resources. In addition, the EIS needs to determine if the impacts on the low income and people of color communities community and provide a justification for uniking this reference community. This justification should include a discussion of the methodology for selecting the reference The identification of impacts needs to include (and not limited to) cumulative and indirect impacts, exposure pathways unique to the impacted communities, historic

Identification of disproportionately high and adverse effects to the low income and

demonstrate that communities bearing disproportionately high and adverte effects have had meaningful input into the decisions being made about the project. The EIS needs to provide a discussion on what was done to receive input from the affected communities (notice, mailings, fact sheets, briefly, presentation, exhibits, tour, nows releases, translations, newsletters, reports, community interviews, surveys, curvassing, telephone hollines, question and answer sections, stakeholder meetings, and on scene information what the imput was, and how that input was utilized to shape the final outcome of the utilized, what mingation measures will be put in place to address those concerns, and what steps were taken to assure that concerns of individuals are being addressed, not just The EIS must identify whether any disproportionately high and adverse to low income and people of color communities would result from the project. If so, the EIS should This discussion should include how input from affected communities was

The EPA projects has identified carried and participal tiles

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The facility dempeter amount methodom information for a perfect the articulators, the IRTA conferred has idealfun identified analyses in the facility, which conferred has idealfun inform or discovering the facility of the facility is marked.

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J.S. Environmental Protection Agency

Comment 1

and/or requirements of a wide range of stakeholders with an interest in how the river is managed McNary dam and the desire touse dredged materials in a beneficial manner. We believe that the Group (LSMG) as an integral component of the development, implementation, and evaluation of Furthermore, we support the commitment to pursue a plan that would use dredged material in a development of the plan will result in a more systematic and predictable approach to managing approach being used. We also fully endorse the estabüshment of a Local Sediment Management We would like to voice our support of the efforts of the Walla Walla District for developing a long-term (20 year) plan for managing sediment behind the Lower Snake River dams and the the plan. We believe that using this group will result in a plan that will likely meet the needs beneficial manner as it would reduce the environmental effects associated with the current sediment in the project area than the present approach of dredging on a as-needed basis. and/or the resources that would be affected by management practices.

Response

our comment is noted.

Organization

U.S. Environmental Protection Agency

Comment 2

he currently proposed plan (and alternatives to it) is a strategy for reducing sediment inputs that strategy for reducing he input of sediment into the project area. . . . A significant omission from ultimately affect navigation and flow conveyance in the project area. EPA believes that the plan control sediment, as well as methods for dredging and managing dredged materials. . . (H)e recommend that the DMMP/EIS be revised to include a sediment reduction strategy as an should ultimately reflect a combination of all reasonable approaches available to reduce and Lack of a Sediment Reduction Strategy - We are concerned that the plan does not include a integral component.

Non-dredging or reduced dredging alternatives, including sediment reduction strategies, were considered in development of the DMMP/EIS (see Sections 2.2.1 – 2.2.3). Section 1.8 has been expanded to discuss the role of the Local Sediment Management Group in evaluating and dentifying possible changes in upstream land management to reduce crosion and sedimentation.

Organization

U.S. Environmental Protection Agency

Comment 3

that the creation of more shallow-water habitat would likely result in adverse effects to aquatic Proposed Creation of Salmonid Habitat - Our assessment of the drast EIS leads us to conclude conditions in the project area. We recommend that the EIS be revised to support the assertion that the proposed creation of habitat would benefit salmonids.

Response

The primary emphasis of the habitat creation is for fall chinook, which spawn and rear in the nainstem Snake River prior to outmigrating, typically within the same calendar year of emergence.

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U.S. Army Corps of Engineers Walla Walla District

tabitat for salmonids, numerous scientists from federal, state, university and tribal agencies set up study design, a lead researcher who was a recognized expert in the field, and a study design from the regions leading experts, we believe that the science supports our claims. (See Sections 3 and agencies included the U.S. Army Corps of Engineers, U.S. Fish and Wildlife Service, National Marine Fisheries Service, ESSA, Battelle-PNNL, Washington Department of Fisheries, Oregon Department of Fish and Wildlife, University of Idaho, University of Washington, Oregon State was David Bennett, Ph.D., a tenured professor at the University of Idaho. With a multiple year University, and the Yakama Indian Nation. The researcher involved with many of the studies Although the proposal to create shallow water salmonid habitat may not "appear" to develop the study design in 1987 to ensure it evaluated the effectiveness of habitat creation. 4 of the DMMP for details.)

year, is a non-preferred habitat for salmonid species. Garland et al 2001 indicated juvenile fall chinook were consistently sampled at much higher rates over natural habitat (including sand) than around riprap in the mainstem Columbia. In addition, researchers have consistently captured subyearling chinook salmon over sandy habitat in the unimpounded section of the Lower Snake shorelines, the areas most frequently used by fall chinook salmon. The building of sandy shallow primarily a single habitat type in the Lower Granite Reservoir. Typically, biologists believe that riprap, although providing substrate for some species of invertebrates for a few weeks out of the water benches, which were formerly quite prevalent in the lower Snake River as determined by examining aerial photos taken pre-impoundment, provides habitat diversity to what currently is River upstream from Lower Granite Reservoir and in Lower Granite Reservoir (Bennett et al The current status of the Snake RiverReservoirs provides little variation in habitat along the

spawning material. However, all of these areas, with the exception of Ice Harbor, are in the areas of higher velocities, such as in front of the powerhouses of the dams, and dredging is proposed in chinook salmon spawn in large rivers such as the Columbia and the Snake". However, no known populations of spring or summer chinook have ever been found spawning in the lower Snake and not downstream in the lower river. Areas that do have fall chinook spawning habitat include the Although large numbers of fall chirook typically spawn in the mainstem of these rivers, numbers fluctuate from year to year as to which run is largest, especially within the Snake River. Nearly tailraces of the dams where velocities are sufficient to keep gravels and cobbles clean for use as Columbia rivers, and there is no historic evidence that indicates that this has ever been the case. habitat for spawning salmon due to velocity and substrate restrictions. In addition, most of the spawning habitat for fall chinook occurred upstream of the Hells Canyon complex of dams and all of the areas proposed for dredging in the lower Snake River or McNary Reservoir have no On page 2 of the enclosure to your letter, "Salmonid Habitat" paragraph 2, you state "most the slower water on the far side of the channel where no fish have ever been documented spawning despite numerous years of looking (Dauble et al 1998).

riparian areas were/are typically farther away from the water's edge than can be used by juvenile In the same paragraph, you also state, "during the winter, juvenile spring chinook prefer riparian true in smaller, shallower tributaries. However, because of the historic hydrograph of the Snake edges where vegetation has grown into the stream, providing cover and shelter." This may be and Columbia rivers, the lowest water surface elevations occur in the winter and, therefore, almon during that time of year.

Organization

Final DMMP/EIS July 2002

Walla Walla District U.S. Army Corps of Engineer.

Environmental Protection Agency

minimum sediment quality criteria and are considered chemicals of concern. The EIS should be revised to demonstrate that the dredged materials from behind the Lower Granite dam are Sediment Characterization - Nutrients, manganese, total DDT, and doxin TEQ exceeded suitable for in-water disposal and/or the creation of salmon habitat.

Section 3.9.2 has been revised to more accurately reflect sediment quality as potentially affected by dredging, as well as the suitability of dredged materials for in-water disposal, creation of salmon habitat, and/or beneficial uses. Some of the sediment quality information presented in the Draft DMMP/EIS referenced sediment navigation maintenance examined in the DMMP. Further, the sediment analysis for the DMMP, throughout the lower Snake River system that may have been affected by dam breaching, which Feasibility Study), which evaluated sediments with respect to a very different proposed action navigation channel. Historical sediment data from the navigation channel indicate no sediment from that considered in the DMMP. The Feasibility Study examined sediments from locations sediment data from areas that may be dredged in the next 20 years to maintain the authorized as documented in Sections 3.9.2.4 and 4.9 of the Final DMMP/EIS, is focused on available would be much more far-reaching in terms of sediment transport and disturbance than the analysis for the Lower Snake River Juvenile Salmon Migration Feasibility Study and EIS contaminant issues would be likely.

dredged material evaluation framework. Until a framework specifically for the lower Snake and potential effects on salmonids and other potentially affected species and, if dredging is to be done, it will help determine the dredging methodology, amount and type of monitoring needed during dredging, and where the excavated materials will be relocated to, either in-water or on Prior to any dredging, the proposed areas will be sampled and analyzed per the guidance of a Material Evaluation Framework will be used. The results of these analyses will evaluate the mid-Columbia rivers is completed, the Lower Columbia River Management Area Dredged

exist within the sediments to be dredged. The collection and analysis of sediment samples will be from the reintroduction of toxic materials if an unknown hot spot is encountered during dredging. urther, analysis prior to dredging will include chemical analysis to identify contaminants if they done in accordance with an approved Sampling and Analysis Plan that is designed to provide an igh probability that significant amounts of toxic materials will be identified prior to the start of any toxic materials into the water column, monitoring will be used to limit the extent of impacts plumes in the river. While the Corps' intent is to test the sediment and avoid reintroduction of amounts of sediment movement may occur during dredging operations and whether the work will be stopped and/or modified to provide additional controls or limit the extent of sediment DMMP EIS as Appendix M. Montoring during dredging will assess whether unacceptable dredging operations. A monitoring plan has been developed, and is included with the Final

Organization

U.S. Environmental Protection Agency Comment 5

LSMG - The EIS should be revised to clearly indicate whether or not this group has been formed. We recommend that the objectives (as well as the compositions) of the LSMG be expanded to

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District

iddress sources of sediment and their control.

The Local Sediment Management Group (LSMG) has been formed (see Section 1.8). Portions of meetings. The section has also been expanded to discuss the role of the LSMG in addressing the section have been modified to better reflect that the group does exist and has held several changes in upstream land management to reduce erosion and sedimentation.

U.S. Environmental Protection Agency

Comment 6

nacroinvertebrak mortality. The Riparian Habitat Subcommittee of the Oregon and Washington Interagency committee stated that no more than 15 percent of stream substrate should be covered clog spaces between gravels and prevent water from percolating through, causing both fish and by inorganic sediment. The report also states that if pools are filled with sediment, rearing and The approach to create salmonid habitat using dredged materids would probably not result in topographic relief. There would be no habitat for sheltering, feeding or prime lies. Sediments sheltering habitat for juvenile salmon is reduced or elininated. The EIS should evaluate the development of desirable habitat for salmonids. The smooth surface would provide no effects of the DMMP against these criteria.

are proposing to dispose of material. We are planning to dispose in areas where there is currently only silt, leaving a more productive area of sand for fish habitat, a significant improvement to The Bennett et al. 1995a report on created habitat indicated that fall chinook prefer areas of open, what is currently there. Currently, the Lower Granite Reservoir is composed of primarily silt in beneficial use outside of directly creating in water habitat. The Corps of Engineers believes that Although sediments can prevent water percolation through gravels, there is no gravel where we salmonid habitat that is currently in the lower Snake River including Lower Granite Reservoir. underwater benches would benefit salmonid species, primarily fall chimook. In addition, the Woody Riparan program within the Corps has potential needs for sedimentary material for creating/enhancing riparian areas along the Lower Snake River. This could be considered a creating the shallow water sand bars along the shorelines is an improvement to the juvenile the lower reaches near Lower Granite Dam. Creating habitat diversity by creating new sandy substrate that did not have hiding places for predators.

U.S. Environmental Protection Agency

Comment 7

Bull trout have also been reported in the lower Snake River since 1991. Bull trout, also listed as threatened under the ESA, are found primarily in colder streams. Water temperature above 59° F is believed to limit bull trout distribution. Bull trout require a spawning substrate of loose, clean gravel relatively free from fine sediments.

Although bull trout have been documented in the lower Snake River, there is no evidence of them 59°F even before the hydrosystem was in place. Evidence suggests that adfluvial (migratory) bull using the river during the summer months when the water temperature is warmer. In addition, bull trout spawn in August and September, a period when temperatures would have exceeded rout from the Tucannon River also utilize the mainstem Snake River on a seasonal basis

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Walla Walla District U.S. Army Corps of Engineers

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displacing bull trout, but due to the distance to the Tucannon River from this site, this possibility would be using portions of the river that would not be impacted by the dredging operation. The current proposed disposal of dredged material at Chief Timothy HMU has the remote chance of (November - May). These fish most likely forage in shallow areas where the majority of prey exists. Thus, even though bull trout may be present in the river during times of dredging, they is very remote

Environmental Protection Agency

Comment 8

water predators. The implementation of the proposed plan would likely result in adverse effects to water in all of the lower Snake River reservoirs to the detriment of cold water salmonid and to the benefit of their warm Creating more shallow-water habitat would increase warmer shallower salmonids by creating better conditions for their preditors.

Response

riverside. The Corps is not currently proposing building islands at the proposed disposal sites. In Centennial Island Site than at the modified reference sites. However, predators were encountered The research by Bennett et al (1995a) demonstrated that predators were not concentrated around these habitat areas created at Centennial Island and were actually found in fewer numbers at the appear to use the area is they prefer the open sand habitat because there is no hiding places for proposed for smoothing. Bennett et al 1995a reported one of the reasons juvenile fall chinook addition, predators are thought to use areas of higher relief, which is why the habitat areas are around the areas where larger substrate that was put in place to stabilize the island on the predators.

J.S. Environmental Protection Agency

Comment 9

salmonids in the lower Snake River and McNary are associated with hard substrates. Covering 4s the draft ES acknowledges, benthic macroinvertebrates that are commonly consumed by the riprap with sand would remove this valuable habitat and its macroinvertebrates

Respons

produced more so on the rocky substrates, Tiffan et. al. 2001 reported that juvenile salmon do not Although Bennett (1995a) reported that much of the ephemeropterans and other invertebrates are use these habitats. Other agencies have actually suggested covering riprap to establish riparian

reservoirs and fall chinook were not typically found to consume oligochaetes. He determined fall chinook were eating Cladocerans (daphnia) and dipterans in high numbers. Bennett 1995a determined most zooplankton was collected over shallow water habitats and that Cladocerans riprap may eventually be covered by dredged material in favor of creating riparian habitat, not all of the riprap would be covered and most of the overall hard substrate in the lower Snake River should be increased, increasing their vulnerability to fall chinook. In addition, although some were in the highest densities at these locations. Because these shallow water areas may have lower velocities, the residence time of zooplankton over the proposed shallow water habitat Curet 1993 performed a diet analysis of fall chinook in the Lower Granite and Little Goose would continue to have the ability to produce insects.

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U.S. Environmental Protection Agency

Comment 10

among adults prior to spawning. High temperatures dso increase the rate of development and conditions during migration have contributed to outbreaks of disease and subsequent death Decreasing depth increases solar heating and stream temperatures. . . High temperature may cause fry to emerge before the spring increase in food supplies.

water temperature is not a problem. As most fish outmigrate within the first year as subyearlings, tailrace areas. However, fall chinook typically emerge as fry in March and April, a period where low flow year, the water temperature did not reach 20°C until July 2, when over 93% of the total the warmer shoreline temperatures actually serve to trigger outmigration. In addition, in 2001, a unsubstantiated and incorrect. The only areas within the Lower Snake River Project where fry emerge from the gravel may be in the Hells Canyon Reach and downstream of the dams in the smolt outmigration had already passed Lower Grante Dam, as evidenced by the Smolt Index from the Fish Passage Center, Portland Oregon, (99% of Yearling Chinook, 92% of Sockeye, 98% of Steelhead, 72% of Coho, and 45% of fall chinook). Twenty degrees Celsius is a temperature at which most scientists stop handling fish to avoid additional stress induced The thought that high temperatures in the lower Snake River harm "fry" salmonids is mortality.

than 0.8% of the total volume of the reservoir (considering an average 15 foot depth x 246 acres/483,800 acre feet). This small amount of influence, combined with the increased depth in the confluence area, and considering the amount of water exchange occurring in the reservoir, would Although increased temperatures may cause health problems in fish, the maximum total surface area of the habitats proposed over the 20-year life of the project amounts to less than 3% of the total surface acreage of Lower Granite Reservoir (246 acres/8900 acres) and would effect less not impact the temperatures very much.

rates, and increased overall survivability through the hydrosystem on their downstream migration. The benefits to fall chinook, however, of having these small areas where the temperatures may be slightly higher than the rest of the reservoir, includes greater food production, increased growth

caused by the dams, but is caused by upstream influences which are currently not being addressed Data quoted from the Anatone United States Geological Survey (USGS) Gage indicates that high River dams. Since Anatone USGS Gage exists over 20 miles from the influence of Lower Granite water temperatures are a problem prior to approaching the area impounded by the Lower Snake unclear. It appears that the overriding factor of temperature in the Lower Snake project is not Reservoir, the correlation with high temperature and the effect of the Lower Snake Project is see the Feasibility Study EIS, Appendix C, Section 3, page 17).

Organization

U.S. Environmental Protection Agency

Comment 11

would further diminish the dready low summertime dissolved oxygen concentration, potentially Increased water temperature caused by increasedsolar heating of the shallow water benches

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U.S. Army Corps of Engineers Walla Walla Distric

Response

See response to comment 10 above.

U.S. Environmental Protection Agency

Comment 12

High external un-ionized ammonia concentrations reduce or reverse diffusive gradient and cause a build up of ammonia in gill tissues of fish Un-ionized ammonia toxicity correlates positively with temperature and hard water.

management would occur in December - March, when water temperatures are low. Both of these Most of the sediments that would be dredged are anticipated to be sand and, therefore, would be unlikely to be "rich in nitrogenous compounds." Further, most dredging and dredged material factors reduce the risk of ammonia being released into the water column during proposed fredging and dredged material management activities.

comment, would potentially occur as a result of proposed drodging. Section 3.9 of the DMMP/EIS provides a summary description of how the framework will be utilized by the Corps, Corps is in the process of developing a specific framework for the project area. However, until a evaluating dredged materials and their potential effects on water quality and aquatic biota. The Lower Snake/Mid-Columbia framework is finalized, the Corps will use applicable elements of The Dredged Material Evaluation Framework provides specific guidance and procedures for framework to determine if water quality-related impacts to fish, such as those cited in the and an outline for the proposed framework is included in Appendix J of the DMMP/EIS. the Lower Columbia Dredged Material Evaluation Framework. The Corps will use the

Organization

U.S. Environmental Protection Agency

Comment 13

for in-water disposal or the creation of salmon habitat enhancement. The EIS should be revised being deposited are fine-grained materials. EPA questions the feasibility of using this material to demonstrate that the dredged materials from behind the Lower Granite dam are suitable for amount of dredging would take place) reveals that approximately 95 percent of the sediments EPA is concerned that sediment sampling in the Lower Granite reservoir (where the greatest in-water disposal and/or the creation of salmon habitat.

Reservoir. The Corps is only proposing to dredge material that has deposited within the navigation channel, port facilities, recreation facilities, and irrigation intakes. The majority of the to remove about 250,500 cubic yards from the Federal navigation channel at the confluence of the removed from ports, shorelines, and boat basins. (For example, in 2002-2003 the Corps proposes Section 2.2.5 does state that approximately 95 percent of the sediments being deposited in Lower Granite reservoir are fine-grained. However, Section 2.2.5 also states that the material dredged approaches, but only about 44,700 cubic yards from ports and recreation facilities combined.) dredged material is removed from the main navigation channel and comparatively little is Snake and Clearwater rivers and 24,000 cubic yards of cobbles from the navigation lock The Corps is not proposing to dredge all of the sediments that deposit in Lower Granite

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Response to Comments

percent finer silt material. The section goes on to state that the silt entering the reservoir does not that composition of materials dredged from port areas, close to streambanks, and in boat basins is contribute significantly to shoaling of navigation channels and that the silt is either deposited in previous dredging operations have contained between 85 and 90 percent sand and that these are indicative of what might be dredged from the main navigation channel. The section also states expected to contain up to 50 percent silt and fines. Therefore, the majority of the material that navigation channels. In addition, Section 3.9.2.2 states that most sediment samples taken for from the navigation channel in Lower Granite is 85 percent sand, gravel, and cobble and 15 other portions of the reservoir or relocated by prop wash, thereby eliminating it from the would be dredged would be sand and not fine-grained material.

This decision tree directs sediments that are greater than 30 percent fines to upland disposal areas and 30 percent silt. However, sediment data from the areas that would potentially be dredged in See response to Comment 4 above. Figure ES-4 of the Draft DMMP/EIS illustrates the process that considers the grain size of dredged naterials as they relate to material management options if there is not enough sand available from other dredging sites to form a mix of 70 percent sand Lower Granite Reservoir (i.e., the navigation channel) indicate that silts comprise less than 30 percent of these sediments,

Also see responses to Columbia River Intertribal Fish Commission's comment 21, and Save our Wild Salmon's comment 16.

Organization

U.S. Environmental Protection Agency Comment 14

recommend that the Corps convene the LSMG and utilize their input in the further development of LSMG has been formed, the EIS shaild identify the members of the group and present a summary of the input they have provided to the development of the plan. If it has not been formed, we The EIS should be revised to clearly indicate whether or not this group has been formed. If the the plan.

Response

Sections 1.8 and 6.2 state that the LSMG has been formed. Section 1.8 has been revised to more clearly indicate that the group has been formed and has had several meetings. This section has also been revised to include an expanded list of participants. Section 6.2 summarizes what was discussed at the LSMG meetings that have been held to date.

Organization

U.S. Environmental Protection Agency

Comment 15

agencies/entities that have jurisdiction and/or are capable of influencing activities and practices We recommend that the objectives of the LSMG be expanded to address sources of sediment and their control. We also recommend that membership of the LSMG be expanded to include that contribute significantly to sediment inputs into the Snake and Clearwater Rivers.

Response

Section 1.8 has been revised to show an expanded list of participants in the LSMG. This section has also been revised to indicate the LSMG will address sediment input from upstream sources.

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U.S. Environmental Protection Agency

Comment 16

The EIS should expand the discussion of the LSMG to include a description of the group's role in decision-making processes by the Corps (or others) associated with managing sediment in the

project area.

Section 1.8 has been revised to better describe the rde of the LSMG in the DMMP and dredging etivities.

Organization

U.S. Environmental Protection Agency

Comment 17

and interpretation of an effective, well designed monitoring plan. We recommend the monitoring A critical element in any successful adaptive management strategy is the design, implementation, plan for the DMMP be designed with the active involvement of the LSMG.

flexibility to change over time. The Corps will consider public comments on the Monitoring Plan received through the NEPA process, and will work with the LSMG to adapt the Monitoring Plan The Monitoring Plan is presented in Appendix M of the Final DMMP/EIS Because the DMMP management, the Monitoring Plan will, of necessity, be a "living document" that provides the is a long-term plan that proposes an adaptive management approach to dredged material over time.

U.S. Environmental Protection Agency

Comment 18

as the success of the DMMP will rely heavily on the manner in which plan performance is monitored. We recommend that the monitoring plan be included in the EIS and it should include We are concerned that the monitoring plan was not presented for public review in the draft EIS a public involvement component to afford the public and opporunity to help shape the plan.

The monitoring program is included in the Final DMMP/EIS as Appendix M. The Final DMMP/EIS has been distributed for public review.

Organization

U.S. Environmental Protection Agency

Comment 19

In general, we have concerns that two project alternaives have been eliminated from detailed consideration and evaluation because they do not represent complete, stand-alone solutions to the sedimentation problems in the project area.

Response

In keeping with the requirements of NEPA, the Corps identified and evaluated a broad range of

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Appendix O Response to Comments

alternatives that may fulfill the program's purpose and need. Several alternatives were evaluated not providing a comprehensive solution to sedimentation and ravigation maintenance within the and eliminated for not fulfilling the purpose and need (see Section 2.2. of the DMMP/EIS) and

Explanations of why the two specific alternatives referenced in the comment were eliminated as major components of any program alternative are provided in the DMMP/EIS and in the responses to Comments 20 and 21, below.

upstream sediment sources and bendway weirs do not represent substantial, complete, or, in many cases, feasible stand-alone solutions to the issues addressed in the DMMP, the proposed adaptive However, as the Corps identifies locations where sediments are accumulating and may require management program provides an opportunity for on-going evaluation of these and other dredging, potential non-dredging solutions will be evaluated. While measures to control measures to address sedimentation and dredged material management issues.

U.S. Environmental Protection Agency

Comment 20

navigation," we believe that evaluaing this critical component is a necessary part of he development of a plan to succesfully and effectively maintain the authorized navigation channel While we agree that changing upstream land uses is "not a complete solution to maintain and flow conveyance of the Lower Granite reservoir

As noted in the DMMP/EIS, the authority of the Corps of Engineers to substartially affect upstream sediment inputs to the lower Snake River system is limited. However, opportunities are afforded through the DMMP process, and in particular through the LSMG, to evaluate and Resources Conservation Service. Furthermore, bendway weirs or other appropriate non-dredging sources. In particular, the LSMG will be expanded to include representatives of agencies that are directly involved in upstream land management, such as the U.S. Forest Service and the Natural case basis. The Corps and LSMG may evaluate use of such a technologies in the future, within technologies may be considered at other locations to address sediment reduction on a case-by. identify regional sediment management issues including upstream land uses and sediment the framework provided by the DMMP.

Organization

J.S. Environmental Protection Agency

Comment 21

necessary analyses/modeling) should be conducted as part of the development of the proposed management plan as the use of weirs could potentially reduce the need to dredge and dispose of We believe an evaluation of potential locations for the use of bendway weirs (along with dredged materials.

Response

In-water structures such as bendway weirs have been looked at in the past and were evaluated as part of the development of the DMMP (See Section 2.2.3.2 of the DMMP/EIS) Structures like sendway weirs can increase water velocity and impact flow direction, but sediments will accumulate behind them. Specifically, bendway weirs would not be appropriate in the

Final DMMP/EIS July 2002

Walla Walla District U.S. Army Corps of Engineers

Bendway weirs may be appropriate in other areas where water surface elevation isn't as critical as dredging technologies may be considered at other locations to address limited sedimentation on a at Lewiston (See response to Comment 19 above). Bendway weirs or other appropriate noncase-by-case basis. The Corps and LSMG may evaluate use of such a technologies in future, within the framework provided by the DMMP.

Environmental Protection Agency

Comment 22

We recommend that the proposed DMMP and EIS be revised to more clearly describe the marner demonstrate that the beneficial uses identified are indeed beneficial (particularly the creation of in which the presently preferred alternative (Alternative 4) would be implemented and salmon habitat).

The description of the Corps' efforts to identify, evaluate, and implement beneficial uses in Section 2.5.4 of the DMMP/EIS has been revised to provide greater detail, as noted in the comment. The Corps' Engineer Manual 1110-2-5 provides guidance on beneficial uses of dredged material. In general, identified beneficial uses will be evaluated based on a number of factors. When more than one potential beneficial use has been identified and determined to be feasible, the uses will compared based on cost-effectiveness, likely participation of a non-Federal sponsor, and incremental analyses to compare the alternatives' environmental benefits per unit cost.

Organization

Environmental Protection Agency

Comment 23

conducted during windows when salmon would not be around do not appear to be supported. We consequence, statements in the EIS that impacts would be negligible because work would be Information exists that indicates salmonids are in the lower Snake River year-round. As a discussion/analysis to support the conclusion that impacts to salmen would be negligible. recommend that the EIS be revised to discuss this issue and include additional

Regarding the dredging operation, the DMMP incorporates efforts to avoid salmon and steelhead individuals and runs. Some fish will be difficult to avoid, but the dredging technique chosen (clamshell) has the least potential of capturing fish.

According to Williams and Bjornn 1998, "A small proportion of hatchery and natural subyearling history and typically outmigrate seaward during the summer as subyearlings. (Tiffan et al, 2001). fall chinook salmon residualized and migrated early in spring 1997; however, as with fish released in 1995, the number that overwintered and migrated seaward as yearlings in spring was "negligible" effect on anadromous fishes. Fall chinook typically have an ocean type rearing life The DMMP/EIS acknowledges that the proposed alternatives would have more than a

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District

Response to Comments

small and did not effect survival estimates." Therefore, the Corps does not believe that a "high proportion" of fall chinook over winter every year. Never the less, the DMMP/EIS states in Section 3.1.1.1.3 and in Appendix F that proposed activities may affect fall chinook salmon by

Organization

U.S. Environmental Protection Agency

Comment 24

We are concerned with the lack of information, or reliance on very old daa (circa 1973), used to characterize current baseline) water quality conditions in the draft EIS. We recommend that Lake Wallula and salinity/conductivity and toxic substances upstream of the Lower Granite dam current baseline information related to nutrients, toxic substances and salnity/conductivity in be gathered and presented in the EIS.

The DMMP/EIS has been revised to summarize these data as they pertain to the proposed action. In addition, the Lower Snake River Feasibility Report EIS includes baseline information on water quality, and is incorporated by reference. See Section 3.9 and Appendix H of the DMMP/EIS for the enhanced discussion of water quality data.

U.S. Environmental Protection Agency

Comment 25

The draft EIS provides little evidence that required government-to-government consultations with conducted in consultation with the governing bodies of affected Tribes, consistent with EO 13175 address issues concerning Indian tribal self government trust resources, and Indian tribal treaty government will continue "to work with Indian tribes on a government-to-government basis to (Consultation and Coordination with Indian Tribal Governments) which states that the US affected Tribes have been conducted. Further development of the plan and EIS should be and other rights.

consultation with the affected Tribes. The DMMP/EIS states that consultation has been initiated, but does not state or imply that consultation has been completed. The Corps intends to complete Section 6.4.3 of the DMMP/EIS provides the current status of government-to-government consultation prior to signing a Record of Decision.

Organization

U.S. Environmental Protection Agency

Comment 26

discussion of Executive Order (EO) 12898 (Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations) and the proposed plan, the EIS presents no evidence that the necessary analyses have been conducted. Identification of potential impacts and Environmental Justice Analysis - While Section 5.25 of the draft EIS presents a very general mitigation measures, developed in consultation with affected minority and/or low-income accompanying memorardum from President Clinton to the heads of all Departments and populations, must be included in the EIS to meet the direction of EO 12898 and the

Final DMMP/EIS July 2002

Walla Walla District U.S. Army Corps of Engineers

three major components: I) Identification (including maps) of all low-income and people of color communities in the area that would be impacted by the proposed project. 2) Comprehensive Agencies. The Environmental Listice analysis prexented in the EIS should include the following disproportionately high and adverse effects to the low-income and people of color communities. accounting of all the impacts on low-income and people of color. 3) Identification of Response

with the principles set forth in the report on the National Performance Review." This Executive Order (EO) states in Section 3-302, "... (a) each Federal agency, whenever practicable and appropriate, shall collect, maintain, and analyze information assessing and comparing environmental and human health risks borne by populations identified by race, national origin, or income. To the extent practicable and appropriate, Federal agencies shall use this information to determine whether their programs, policies, and activities have disproportionately high and adverse human health or environmental effects on minority populations or low-income populations." As pointed out in the comment, the Draft DMMP/EIS considers rather broadly the Federal agencies mission "to the greatest extent practicable and permitted by law, and consistent McNary Reservoirs. As such, the potential environmental impacts identified are not anticipated to be borne disproportionately by any particular community or demographic group within the potential effects of the alternatives on environmental justice populations, concluding that the proposed plan is consistent with the intent of the EO. The DMMP/EIS is a programmatic plan Executive Order 12898 states as a goal to make achieving environmental justice a part of each navigation channel, dredged materials, and flow conveyance in the lower Snake River and and environmental evaluation that considers a long-term strategy for management of the

data for the study area to demonstrate where environmental justice populations may be located in relation to the project area. The findings are documented in Sections 3.6 and 4.6 of the Final DMMP/EIS. In the Final DMMP/EIS the Corps has presented a more detailed examination of demographic

U.S. Army Corps of Engineers Walla Walla District

Final DMMP/EIS July 2002

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115 Y Ernet a Lowleton, Idaho 53601-1930 a, (200) 738-4370

January 3, 2002

Mck Sande, Project Manager U.S. Arry Corps of Englasers Walls Walls Diserted 210 North 3" Avenue Walls Walls, WA 99362-1875

RE: Dredged Material Managona Stake River Reserveirs

Dear Mr. Snade,

The Levisions Regional Office of the Department of Bartironnessal Quality (IDBQ) would like to provide common on the Carpa of Engineer's programments plan for maintenance of the authorized savigation classed in the lower Statie River reservoirs between Levision, Idaho and the Columbia River.

The designated beauficial meas protected under the John Water Quality Boarderis in the Lower States Associated Subbasin, Hydrologic Unit Code | 70/601/03, from Associate Const. to the Lower Grants Dam pool are cold water bloom primary context recreation, and domestic water supply. This section is not controvely kined as a water quality limbar regover on the fakto section [300/0] list, bed to a water quality (make regovers on the fakto section [300/0] list, bed to a water quality (make)

The designated benefitials uses protected under the Idako Water Quality Standards for the Clearwater River.
Hydrobyje Unit Code 1706/1904, from the confluence of the North Foot Chearwater River to the Washington State
line, are cod water blots, primary contact procession, and donestic water supply. This tection is a water quality
limited segment on the Idako (2004), for the technical disserved gas. A Total Maximum Dully Lond (TMDX) is then the noncepteed in 2003.

Oradina activitas seus pot result is s riobitos of specific seufice west quality citeris for the shows neurious designabel use chasifications as irrad in the provisions of DAPA \$5.01 to 2 to . Monitoring the in-sense activi is required to enurse fathe Slute water quality specified are being set.

5

Please he advised that a Total Manimum Daily Load (TMDL) allocation for emperature is being developed by the U.S. Environmental Protection Agency for the Saake River, from the confluence of the Salasso River to im-confluence with the Calambia Parer. IDPC is the state agency responsible for implementing the providence of the TMDL for the section of the Snake River, from the seation of the Snake River, from the seathers of the Snake River is the IDPC and IDPC agent I

8

As a joint participant in the DAGLE, EDA is the agency responsible for coordinating stars where quality agencies and canusing Chen Water Act compliance across state boundary lines. A coordination plan should be the relocated for Whiteleville and Labor and the revision of the form the provision of the form the four Act in the first respective sections of the act is able it have said this activity. For rampful, how does this project gain what from National Politician Descharge Elemention Spalers (WHOES) permai requirements section by the fact work.

8

works designing autivities and sam. Corps designing extrainers will be reviewed by IDEQ prior to the extra or the lasting of a permit. The state of Gabo will consult wish the Corps to determine if the activity requires an additional permit with proble reviews and 4-01 water quelity certifications, or a Nationwish permit with regional conditions. 4-01 water quality orthodous will require application of Best Management Permitses the entervaling turbuilty during the designing orderly. A summersy report will be prepared by the Corps and provided to IDEQ providing BMP effectiveness in protecting water quality.

Coluctiform with these results will be an increase in evaluable information on rectinant and weter quality in the hower distribute Eigens, the conflictors of the Salaria and Conservate Eigens, and Lower Chemies Remarket. Volumbie annual dans will be collected from the 20-years's worth of designing subsistance and about he provided is an activity report to DEQ. IDEQ recommends the Diplications and about and about provisions to the provision of the conflictors of the Salaria and Chemical Eigens. Well quality mentioning in accountry to establish the lank between distributing from sediments and the demonstrate

¥7

The executive summary proposed uning the Levisina leves as a method in minimize direiging in order to meet a 70-year spail, yet the selected abstractive also was to provide a project lide which exploses in 2074. He knees are bring raised in increase coverypace, which has been reduced by sedimentation.

•

How does reducing sediment franciel proving thang leves raised. More is the conversance to be maintained. There is the conversance to be maintained by the season before the described and conventy.

ú ao increas in pont cárnaine copached in provide como punea? Il es, has the afficial of ingogen Debanie hand is reposta do inflication through the star screams been evaluant? Will for exam energing Leiste to independe -

The City of Lowishm and the Corps will have to meet Chem Water Act NUDES stormware quality regulations in the men faint. If the pool ulevation is increased, and infinitely make the measure of residence than to the existing screen; and interments collection system will desirate. Will this addition the gastern will desirate. Will this addition the gastern will desirate.

90

Thack you for the opportunity is provide comments on this proposed project. If you last questions or concerns regarding these comments, please contact ner effice at (200) 799–4370,

Sindy Bruch

Cindy Bairett Watershed Menitering Coordinator

CC: Sendy Simmens, ACOE, Walfe Walls Jerons Hansie, IDPG, Levision Dong Abderbaldee, IDEQ, Boine

daho DEQ, Lewiston regional Office, Watershed Monitoring Coordinator Comment 1

Dredging activities must not resul in a violation of specific surface water quality criteria for the 58.01.02.250. Monitoring the in-water activities is required to ensure Iddio State water quality above mentioned designated use classifications as listed in the provisions of IDAPA standards are being met.

activities to ensure compliance with applicable water quality standards. A sampling and analysis plan will be developed for each dredging activity, and submitted to IDEQ for review as part of the Clean Water Act 401 certification process. The DMMP Monitoring Program is included in the The Corps has in the past and plans to continue monitoring water quality during dredging inal DMMP/EIS as Appendix M.

daho DEO, Lewiston regional Office, Watershed Monitoring Coordinator

Comment 2

section for purposes related to this TMDL and its implementation. In addition, the TMDL could require a further reduction in pollutant discharge or further restoration from this proposed IDEQ asks that the DMMP include documentation of dredging effects on water quality for this

depth in the confluence area and the amount of water exchange occurring in the reservoir, impacts Snake River, from the confluence of the Salmon River to its confluence with the Columbia River. The Corps routinely monitors temperature at established total dissolved gas monitoring stations in Because of the relatively small surface area of the proposed habitats, combined with the increased Lower Granite Reservoir. When dredging operations are conducted during the winter, the overall dredging of backwater areas may have a localized effect on water temperature, but it would not to the overall reservoir temperature are anticipated to be relatively minor. Also see response to be expected to have a measurable effect on water temperature in the reservoirs. Creation of The Corps acknowledges that a TMDL allocation for temperature is being developed for the shallow water habitats is expected to result in localized near-shore temperature increases. effect of dredging on reservoir temperature is expected to be minimal. Potential summer the Environmental Protection Agency's Comment 10.

Idaho DEQ, Lewiston regional Office, Watershed Monitoring Coordinator

Comment 3

responsible for implementation of the provisions of the Clean Water Act in their raspective A coordination plan should be developed for Washington and Idaho, as these states are sections of the Stake River and this activity.

Although a specific coordination plan has not been developed at this time, the Corps will continue to coordinate with the Idaho Department of Environmental Quality, the Washington Department of Ecology, and the Oregon Department of Environmental Quality, as well as the U.S. EPA, for Clean Water Act compliance throughout the implementation of the DMMP. The LSMG and Dredged Material Evaluation Framework present specific opportunities for continued coordination.

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U.S. Army Corps of Engineers Walla Walla District

ldaho DEQ, Lewiston regional Office, Watershed Monitoring Coordinator

civil works dredging activities and non-Corps dredging activities will be reviewed by IDEQ prior turbidity during dredging activity. A summary report will be prepared by the Corps and provided As per Idaho's 401 water quality certification guidance, each dredging activity, including Corps determine if the activity required an individual permit with public review and 401 water quality quality certification will require application of Best Management Practices for controlling certification, or a Nationwide permit with regional conditions. Clean Water Act 401 water to the activity, or the issuing of a permit. The state of Idaho will consult with the Corps to to IDEQ providing BMP effectiveness in protecting water quality.

activity. IDEQ will have input into each dredging project through the Clean Water Act 401 certification process. Further, the Corps will coordinate with IDEQ, and other appropriate water The Corps will continue to work with IDEQ regarding the implementation of each dredging resource agencies, in the assessment of BMP effectiveness in protecting water quality.

idaho DEQ, Lewiston regional Office, Watershed Monitoring Coordinator

Comment 5

recommends the DMMP/EIS include provisions for continued water quality management esforts in the confluence of the Snake and Clearwater Rivers.

Sediment and water quality data collected as part of dredging activities will be provided to IDEQ The DMMP addresses water quality associated with dredging and dredged material management. as it becomes available. Information gathered during each dredging project will be considered when planning future dredging projects within the 20-year period. The Corps will continue to work with IDEQ throughout the implementation of the plan. IDEQ will also have continued Overall, water quality in Lower Granite Reservoir is associated with operation of the project. nput through the Clean Water Act 401 permitting process.

daho DEQ, Lewiston regional Office, Watershed Montoring Coordinator

Comment 6

How does reducing sediment removal prevent future levæ raises? How is the conveyance to be The levees are being raised to increase conveyance, which has been reduced by sedimentation. maintained after the 20-year planhas expired? Does the proposed plan result in future levee raises not currently addresses?

in conjunction with the reduced sediment removal and is expected to provide the desired conveyance and level of flood protection through the year 2074. The need for levee raises would Reducing sediment removal does not prevent future levee raises. The levee plan was developed be re-evaluated after 2074 based on conditions at that time.

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District

Organization

Idaho DEQ, Lewiston regional Office, Watershed Monitoring Coordinator

Comment 7

Is an increase in pool elevation expected to provide conveyance? If so, has the effects of increased head in regards to infiliration through the dike structure been evaluated? Will the existing pumping facilities be adequate?

The proposed levee raise provides for increased pool elevation during extreme flood events and, thus, provides conveyance while maintaining a designed level of protection. The normal pool operating elevation would not increase as a result of the proposed levee raise. During normal operating conditions, the water level would remain at its current elevation, so there would be no increased head and, thus, no increased infiltration.

were conducted. However, the pump stations behind the levee system are designed for the 100-year storm water event and are anticipated to be adequate to control infiltration associated with flood everts. Additional storm water flow from flood infiltration to the storm water pumping occur, and as such, are not expected to result in substantial amounts of infiltration. No specific standard project flood. Flood events provide a temporary condition in which infiltration could Infiltration could occur during high-flow (i.e., flood) events, such as the 100-year flood or the evaluations of potential changes in infiltration rates associated with the proposed levee raises system is anticipated to be minimal.

Organization

Idaho DEQ, Lewiston regional Office, Watershed Monitoring Coordinator

Comment 8

existing seepage and stormwater collection system will decrease. Will this adversely affect the If the pool elevation is increased, and rifiltration rates do increase, the residence time in the quality of the pumped discharge to the receiving rivers?

stormwater collection system directly by overflow which would have a greater adverse affect on stormwater collection system and impact the quality of the discharge. However, such events are expected to be infrequent and of limited duration and the impacts are anticipated to be minimal. The levee raise will better ensure that the river waters do not inundate the existing seepage and The increased pool elevation during flood events does have the potential to reduce residence time in the The levee raise is not expected to increase the normal operating pool elevation. water quality. Response

Final DMMP/EIS July 2002

Walla Walla District U.S. Army Corps of Engineers



IDAHO FISH & CAME IN CLEARWATER REGION 150 Venne Avene Lewison, John 13501-5609

Compilating (Contact

Jennary 7, 2002

Lieutenant Colonel Richard P. Wagenaar Department of the Army Walls Walls District, Corps of Engineers ATTN: Dredged Material Management Plan 201 North Third Avenue Walls Walls, Washington 99362-1876 RE: Dradged Material Management Plan and Environmental Impact Statement

Dear Colonel Wagenaar:

Thank you for the opportunity to review the draft Dredged Material Management Plan and Environmental Impact Statement (DMMPRES), McNary Reservoir and Lower Snake River Reservoirs. Our comments augment those which we previously provided on the preliminary draft of the DMMPRES in November 2000.

Alternatives

The four alternatives straighted do not cover a wide nor creative range of solutions for the serious. Inne-term problem of sediment accumulation and decreasing flow connerance, and conscient in Lower Granite Reservoir. All include develope and tradge disposal, and three include a three-foot leves raise. All of the alternatives including the preferred are costly and offer only short-term solutions to a very complex long-term problem.

Several issues that we raised in our November comments were either not addressed or not addressed fully in the DAGAFAELS. For instance, we augmented that the DAGAFAELS.

Include a most fully developed tange of alternatives, including more natural processes for sediment tentoval and transport, Alternatives each as a sering sediment "flushing" event abound be employed more natural processes for the addition of a flushing alternative may require seasonal modification to reservoir operations, it may prove to be less expensive and provide more benefits to migratific granatorous fast than existing alternatives. We saked that the DAGAFAELS the consulty explores the relationship between the continued accumulation of sediment and the benefits of the State of Idade significant contribution of flow amountaining. We requested that the DAMAFFELS more theoretally evaluate potential changes in velocity, temperature, smolt travel time, survival, crowding, and disease expount of Istot stocks in each alternative. We argareted that the DAMAFELS ovaluate the use of flows from

Managarangan - 1867-1967 - Andrew State Spanish - 1967-1967 - Andrew Sant (1967-1967) - Angrippe Symmetry India

Surpachal: Denn to incluse actnit specified movement neutrann into the lower Clearwater. River micr and chains the winter work window. We also requested a complete scalprain of the effects of the development of challow water habitute, in combination which the lone of the scanning of sealings in the upper part of Lower Greater proof, on water.

Sediment Accumulation

Approximately 3.2 million cubic yards of rediment accumulates annually in Lower Grante Reservoir. Specific amounts very year to year. An examination of sediment onbimms exposed during the 1992 experimental reservoir drawdown suggests that at least 3 foot of sediment ten be accumulated during high water years.

Under the Praforned Alternative, approximately 300,000 cubic yards of sediment will be dredged every two years, primarily from the 14° by 250° navigation chamel. This represents only 5 percent of the armual build-up of sediment.

Based on a 484 focusind scre-fied capacity of Lower Crmite Reservoir, sediment recruitment represents approximately a 1 percent reduction in total reservoir capacity every two to three years. Over the next 100 to 150 years, the reservoir capacity can be expected to decrease by approximately 50 percent.

Eccuses most of the scaliment is generated from land use activities in the upper part of the watershed, it is important that the Corps work closely with other agencies and the public to address or going upstream erosion. The DMAPPEIS should provide additional against the state.

The Preferred Alternative includes a proposed 3-floot laves raise in Lewiston, to replace flow conveyance lost to sediment build-up in the reservoir. With almost 3 million cubic yards of sediment accumulating annually in the reservoir. How long will it be before the cart leves raise is proposed? If we understand the snahysis conveity, a 100-year even can be expected to evertop raised leves near the end of the planning period (75 years). Based our the malysis in the DAMPHIS, the next leves raise will require extensive and temperative infrastructure changes, including raising or modifying several bridges in the Lewiston sees.

Leves raises effectively raise the elevation of the river further above the city during flood events, loading to potential long-term drastic consequences during flood events. We have consistently beared these issuess along other rivers of the country, with the Missistippi River perhaps the most high profile. We are claspromed that the DMARPHIS does not stainted and discuss noteminal long-term implications to find the beared of a staint of the staint of a staint of a staint of the staint of a staint of the staint of the staint of a staint of the staint of

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Should we care today about the long-term prognosis for Lower Granius Reservoir? We think so, as solutions are jikely to get more expensive and complex in the fauure. We feel that the Corps, through the DNAMPERS process, has a responsibility to the public and

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future secretarizers of Laborans to provide a realistic description of these projects 75 years and beyond, and potential runifications to the public and fish and wildlife resources.

Sediment Disposal/Bonefficial Use

=

2

We are in favor of utilizing drodge material to create favorable habitate in the reservoir where possible. We remain somewhat stepcies of the degree of femelt however. We discrete that the placement of drodged material will affectively mitigate for the lost shortline and shallow water rearing habitat utilized by juvenile full chimode under me impoundment conditions (Appendix F. 37). How stable will the artificially created labitates be form-term in light of fluctuating reservoir lovels or wave action? How soon will they be covered with sits and provide the same poor quality of habitat as most of the rest of the reservoir? Appendix F reported that under a so project alemative, about 2 inches per year of the sediment would accumiate across the beach of the proposed in water disposal site. Under the Proforced Alternative, would accumiate across the beach of the proposed in water disposal site. Under the Proforced Alternative, won't this site accuminate on the surface of the sand substrates?

We are not coordined that the shallow water habitate greated will not accentuate predation by smallmouth base or northern pile minnows. The DMARFEIS suggests that species such as smallmouth base prefer larger substrates that inventle chincok estimot. While we generally agree, we assume that higher temperatures and presence of inventle chinook forey) will likely be given are intricants to small month base that obstrate size.

Appendix G mentions that the disposal site near RM 116 was selected because it could provide suitable resting/rearing habitat, would not interfers with tawlgation, wouldn't ham cultural resources, and would be of sufficient size to accommodate dredged material for several years. How many years is several, and what other disposal sites exist kneering for several years. How many years is several, and what other disposal sites exist kneering for several years. How many years is several, and what other disposal sites exist completents a Frankibitive Study to evituate and several alternative presences that may present. Disposal sites relatively the superior present into a present the survival of lovenile anadvanous fall through the lower Study Reservoir present of one potential long-term changes in management of the Lower Studye River. reservoir evalent

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3

The DMMVP/ELS concludes that the creation of shallow water habitats will have neglible effects on temperature. This may be the case in the near term. However, over the long-term, erested shallow water habitats in combination with the accumulation of 3.2 million cubic yards of sediment amoually in the upper end will exacebate water temperature problems caused by the original impoundment. Among other things, high temperatures can negatively effect adult snadromous fish migrations, therefore impacting Corps mingation obligations.

2

Impacts of Dredge Operations

operations will reduce but not eliminate potential impacts to a variety of aquatic Adverting to the winter work window (December 15 to March 1) during dredge

- resources. We feel that the phrases "harmless" or "easily avoidable" (Appendix F-50) are not appropriate in Gescribing potential impacts of dredging operations to fish populations. 11
 - Azalvais of potential impacts to stockload is understated in the DMMP/BIS. During some winters, a relatively high percentage (at least 40 percent) of Clearwater B run steelhead are in the Lower Granite pool during the winter work window. The implied correlation between lack of flaberman and lack of flab at the confinence is not spormate in all years. 2

pool. Data indicates that the yearing fall chincon that ournignets the second year exhibit a higher Smolt to Achil Return (SAR) ratio than 0 age fall chincol. Some potential to central these fish exists during deviging operations. A small percentage of juverile fall chinook will also over winter in the Lower Granisa 2

Limited data is available on the prosence of different life stages of lamprey in Lower Granits Reservoir. As the DisfMP/EIS points out, some evidence suggests that amoodes may be in the substrate in the reservoir bottom. Careful insolinating during dradge operations, including examination of dradge puberials, will be necessary to ensure that imprey amooetes or other juvenile life are not entrained. 20

The DMMVEIS provides a fairly detailed grabysis of white sturgeon data from Lower Grazile, but docso? cover any potential direct impacts to sturgeon while conducting drades occusions in the winger. 77

Thank you for the opportunity to provide comments on the D&GAPATIS. We are hopeful that the Corps can work with other agencies and the public to develop reasonable long-term solutions to sediment and flow conveyance, and accompanying aquatic resource issues in Lower Granius Ruserroit. Please contact Jerome Hansen (208-799-5010) of this office if we can provide additional information.

Sincerely,

Carl

Cal Groen

Clearwater Regional Supervisor

Cg/jh/m

Cindy Burrett, DEO xome Hensen ü

Virgil Moore Ed Schriever

fracey Trent, Natural Resources Policy Bureau

13



IDAEO FISH & GARG 600 South Walout P.O. Box 23 Beise, klaho 83707-0025

November 27, 2000

it Esmerberte / Commun. Red Lends / Director

> Mr. Jack Senda US Army Corps of Engineers Walls Walls District 201 North Third Aw. Walls Walls, WA 99362

Doer Mr. Sands,

Pursunt to Gregg Servicen's briefing with you in July on the Dredged Material Management Plan (DMMP), the Jahleo Department of Fish and Game (Department) solumits the emolosch comments. The comments are based on a preliminary draft of the programmed DMMP EIS. Our indeminding is that the U.S. Army Corps of Engineers (Corps) and the Environmental Protection Agency are just finishing up an internal review of the preliminary draft DMMP EIS.

An "interior" document that just addresses this winter's dredging for port access it siknady out for comment. While our comments are more focused on the programmis EIS, there is relevance to the abort-term action proposal and there may be aspects of our comments that the Corps may wint to consider while finalizing a public seview want for the programmite EiS.

If you have any questions regarding the Department's comments, please contact Gragg in our Clearwaker Regional Office at (204) 799-5010. We would also like our comments shared with the Rapional Dredging Team.

Thunk you again for your time. Please they the Department involved in this important analysis and project.

Veryal Moore, Chief
Bureau of Fisheries

Enclosiane

i: I. Yost, Governors Office
T. Trent, IDFG
S. Pennsy, NPT
Fish Passage Advisory Committee

C. Groen, IDFG A. Irby, IDFG Commission NMFS, Olympia.

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Comments on the US Army Corps of Engineers' Draft Dredged Material Management Pian Environmental Impact Statement

Idaho Department of Fish and Game Boise, Idaho November 27, 2000 We appreciate the opportunity to comment on the US Anny Corps of Engineers' (Corps) Draft Drodged Misterial Musagement Flast (DAGAP) Environmental Impact Statement (EIS) for the lower Scales River. This is a very importung project affecting the communities of Lawingon, Charlaton, Orolino, and the conservation of fish stocks in Idaho listed for protection under the fotent Environ.

Since implementation of deedging in Lower Granis pool, several dings have changed that make it importably the EIS and any interim deedging projects be more carefully evaluated than is done within the death EIS. The primary changes, of course, have been the continuing decline and subsequent listing of anadromous salmon and steethest stocks.

The Lower Gramin reservoir impoundment has reduced entertale and riparian cover for reating and predator avoidance during estingention, reduced water velocity in the impoundment pools, increased the number of predators, and changed water temperatures. The increasing builday of sediment within hower Gramite pool and abbequent reduction of channel capacity and flow corveyance in the upper reaches of the reservoir may also be contributing to temperature problems caused by the impoundments in the lower Stake Blow.

We understand that approximately 3.2 million yards of sediment currently collects in Lower Granize Reservoir attentially. Most of this sediment accumulates in the upper section of lower Granize Reservoir at the confluence of the Chartware and Stake Rivers and it impinges on the Ports of Chartware and Stake Rivers and it impinges on the Post of Chartware and Stake Rivers and it impinges on the Post of Chartware and Spaine Rivers and the state of the chartware and state of these cities. At no time anion the beginning of the dradging program in lower Carnize Reservoir in 1982 has the Corps removed more than 31% of the total seminal secremitation of sediment in the project most of the dredged sediment has been disposed in lower reaches of the reservoir. Based on a 48st housand sore-lest reducity of Lower Granize Reservoir, this sediment recruitment represents approximately a 1% reducity of Lower Granize Reservoir, this sediment recruitment represents approximately a 1% reducity of Lower Granize Reservoir, where all of fidsho's juvenile and adult salmon and steelheed must surface water elevations associated with flood discharge. Another effect is that surface are of the reservoir, has sincreased relative to depth, particularly in the upper reaches of the reservoir.

See 16 The effect of not being able to maintain deedge removal consistent with deedge accumulation during the past 25 years and for the forestende 20 weers of the DAMP may exceedure water temperature problems caused by the original impoundment. Increased water temperature can impair juvenile and adult estation and stocked mignifion. Delayed cooling of the impoundments

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is the fall can impair adult steelhead and fall chinook movement into the Snake and Clearwater rivers. This effect is not specifie to listed fath, but can also impact non-listed batchery attelhead available to tribal and sport fisheries in Idaho.

Although the contribution of sedimentation to this waker temperature problem may be relatively tenal. It he accumulating effect may further threaten the conservation and potential recovery of listed student attentions and stocked stocks within the State River bain. For example, current Federal Columbia River Power System (FCRPS) operations require listabe to provide approximately 2 million scre-feet of flow sugmentation annually in an attempt to address water velocity and water which the properture concerns in the lower Snake River. The shility of flow angmentation to address water velocity and temperature concerns is relatively minor, but the augmentation pensies in spile of significant impacts to other State interests. One of our concerns is that continuing sedimentation will further reduce any benefits of the State's significant contribution of flow augmentation. The DMAMP EIS should theroughly address this concern.

In light of docreasing channel capacity in Lower Gemits Reservoir, and the potential for increasing water temperatures, the Department believes the DMARP can directly affect States Nive stands and survival. We recommend the DMARP fully assess lower States are structured an injurious and survival. We recommend the DMARP fully assess lower States River inventie almon and steelhead migration and survival at it may be affected by the operation and maintenance efforts of the Corps deedge program and DMARP for the nart 30 yeals of the project. The programmatic Bits should mare throughly evaluate the change in yellocity, numerature, resting fearing labilit, small trevel time, survival, crowding, and disease abnowing resident the context of other salmon and steahed recovery measures and the overall net impact to water temperature, water velocity, fish mignation, and survival.

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We understand the leves system surrounding Lewiston is not designed to provide flood control to Lewiston but rather to prevent inundation of the city. The draft ElS evaluated modifying the existing levees by 12, 8, 4, and 3 feet. Modifying the levees does not appear to fit within the DMMP project purpose. The levees were designed and constructed to be an upstream extension of the dam to allow Lower Granite Reservoir to pass a Standard Project Flood (SFP) event while protecting Lewiston from introation. Any modification of the levees is a modification of the operation of the Lower Granite project. Project modification of the levees is a modification of the operation of the Lower Granite project. Project modification of the levees is a modification of the configuration pass the SPF, but may also contribute to declining pool and water quality allow the reservoir to pass the SPF, but may also conclude find the declining pool and water quality allomatives are have increase potential thereis to recovering tisted fish stocks. We requisit firsted alternatives be revealuated occurses of their potentially negative imports to salmon and stellend conservation and recovery in the Saake River basin. We also request the DMMP be included and asserted within the context of the Lower Snake River Juvenile Salmon Mignation Fearibility.

Report/Environmental Impact Statement.

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25 See 2

Based on the scope and turntion of the DMMP and the potential effects described above, we recommend the DMMP EIS include a more fully developed range of alternatives that provides enhancement of mismaline anadomous fish. It does not appear the first DMMP has fully explored more natural processes for sediment removal and transport. For example, dan modifications or inriver structures to increase water velocity in the main channel no reduce

sedimentation and improve fish migration conditions.

We recommend the DMMP also consider additional measures to minimize selverse impacts to fish and fasteries during dradging operations. The current work window for the project is.

December, 15 to March 31. This work window overlaps with the presence of holding or migning abilit steelihead. Alternatively, we suggest the DMMP evaluate use of flows from Dwornbak dam to induce solut seathead movement upstream into the lower Clearwater River prox and during the December 15 March 31 work window to reduce the potential for impacts to listed steelihead. Because a ratalively high percentage of the listed Clearwater B run (40 - 60%) shellised will be in the pool and dradging areas at this time, it is lifely that dradging activities may have adverse affects on adult steelihead. Minimizing the sumber of steelihead that may be affected by dredging, activities by inducing their inversating the sumber of the project area is an attentive the DMMP ahould evaluate. Fall and wister drafts from Dwornbak Reservoir should not be used if these darks stodes the probability of refill to maximum flood control levels by eurance flow suggmentation waiter into the fall sated early winter, will all this effort.

The estimated cost of the dradging project is at least \$10 cubic yard for invator disposal of dradged makerial. Costs would go up at estimated 3-4 times for disposal of dradged makerial in apland sites. We suggest that the final EIS improve its cost-banefit analysis of the dredge program. Because the pool is maintained by the Lower Grantle project, each alternative, including the satural rive standards the transitive, and the material rive standards and maintenance for navigation, each alternative, operation and maintenance for navigation, and not navigation, and potential impacts of dradging required to catch up with abortfalls in the existing dredge program, potential minigation for declining pool conditions because of sedimentation, and fish and wildlife benefit costs and risks.

The dradge program has been identified as benefiting chinock salmon by providing critical shallow water habitats free from potential predators. While we believe some of those benefit are real, was an that the ElS assess the availability of similar babitats under a natural river and without dradging the lower Gratic bool. Certainly continuing sections asses a reas of challow pool is also increasing stallow water habitat. The effects of these increases a reas of challow water on water to water the should also be considered in the Dolindy. Because a 464 permit for dradging requires that its water disposal be for beneficial use, this determination will need to be species.

28 We request Idaho Department of Figh and Gume he included on the Regional Diridular Jean identified in the DMAP EIS.

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Comment 1

The four alternatives analyzed do not cover a wide nor creative range of solutions for the serious levee raise. All of the alternatives, including the preferred, are costly and offer only short-tem long-term problem of sediment accumulation and decreasing flow conveyance and capacity in Lower Granite Reservoir. All include dredging and dredge disposal, and include a three-foot solutions to a very complex long-term problem.

alternatives identified through the scoping meetings and subsequent analysis by the Corps. The range of alternatives meets the project purpose and need. Non-dredging and reduced dredging alternatives were considered. The Corps considered short-term and long-term approaches, and was unable to identify any non-dredging alternatives that would preclude the need for dredging. Reducing sediment generated by land use practices was considered, but would not eliminate the The Corps appreciates the complexity of issues of long-term dredged material management as Corps property, the Corps will use the Local Sediment Management Group to pursue possible need for dredging. Although the Corps has no authority to change land use practices on nonthey relate to the lower Snake River and McNary Reservoirs. The DMMP/EIS reflects the modifications to land use practices.

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Comment 2

We suggessed that the DMMP/EIS include a more fully developed range of alternatives, including more natural processes for sediment removal and transport. Alternatives such as a spring sediment "flushing" event should be analyzed.

Spring sediment "flushing" (both with and without drawdown) has been considered in the past, and is not a viable strategy for meeting the DMMP's objectives.

project facilities and major support features and public infrastructure would exceed the benefits of Without drawdown, a spring "flushing" operation would not develop sufficient velocities within the reservoir to pick up significant quantities of materials and transport them downstream. With sediment flushing. Also, flushing would just move the sediment downstream only to potentially drawdown, the sediment flushing could be effective, but the impacts to operations as well as cause problems elsewhere. See also response to Save our Wild Salmon's comment 10.

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accumulation of sediment and the benefits of the State of Idaho significant contribution of flow We asked that the DMMP/EIS thoroughly explore the relationship between the continued augmentation

Response

(i.e., from April 10 - June 21) and 50,000 to 55,000 cfs in the summer (i.e., from June 22 - July 31) for Lower Granite Reservoir. Flows in this range usually do not carry high sediment loads in Flow augmentation has target flows of 80,000 to 100,000 cubic feet per second (cfs) in the spring

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Response to Comments

suspension and, therefore, do not contribute substantially to sedimentation within the reservoirs of the lower Snake River. Higher flows - greater than 150,000 cfs - usually associated with spring therefore, contribute more sedimentation within the reservoir system. Consequently, there is a minor, but unsubstantial, relationship between accumulation of sediment in Lower Granite runoff events tend to carry greater sediment loads (than flow augmentation scenarios) and Reservoir and the State of Idaho's flow augmentation.

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Comment 4

We requested that the DMMP/EIS more thoroughly evaluate potential changes in velocity. Iemperature, smolt travel time, survival, crowding, and disease exposure of listed stocks in each alternative.

Response

substantially change, smolt travel time will not substantially change, survival will not change, and The potential change in velocities resulting from dredging the navigation channel to a maximum of 16 feet (overdraft) in a 250-foot wide channel at the confluence area of the Snake and Clearwater rivers confluence would not be substantial. The position of the navigation channel at occurred at the confluence area, this may serve to benefit juvenile salmonids, but would have no the confluence area, in that it is the head of the reservoir and, therefore, has lower velocities, is impact on adult salmonids, which migrate upstream along shorelines. Although the creation of shallow water benches may have a small, localized impact on increasing temperatures in the shallow water area, dredging the channel to navigation depth would reduce the exposure of the precisely why the majority of the sediment settles out there. Therefore, if velocities do not crowding and disease exposure will not change. Even if a substantial change in velocities river bottom as a whole to solar warming.

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Comment 5

We suggested that the DMMP/EIS evaluate the use of flows from Dworshak Dam to induce adult steelhead movementupstream into the lower Clearwater River prior and during the winter work window.

Response

would not be a cue for fish to move upstream. Since a temperature change would not be expected, steelhead would have to move upstream based on an increase in total river discharge and we temperature for water passing through Dworshak Dam at the scroll case in December of 1999. 2001 was 7,13°C (USACE 2002). As dredging would begin in December, a temperature change know of no evidence that indicates that they would. However, if they would, it may also trigger fish of non-Clearwater origins to migrate up the Clearwater River. Another uncertainty is the Use of flows from Dworshak Dam by spilling water during the winter in water work window effect that higher flows might have on juvenile salmonids and Bull Trout rearing in the North would have an unknown effect on overwintering adult and juvenile steelhead. The average Fork Clearwater and Clearwater Rivers.

in addition, although selective withdrawl may eventually help to minimize entrainment, the food base for bull trout in Dworshak reservoir, kokanee, may be entrained with winter spill with

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Comment 6

We also requested a complete aralysis of the effects of the development of shallow water habitats, in combination with the long-term accumulation of sediment in the upper part of Lower Granite pool, on water temperatures.

shallow-water habitat is created. Although the creation of shallow water benches may have a snall, localized impact on increasing temperatures in the shallow water area, dredging the channel to navigation depth would reduce the exposure of the river bottom as a whole to solar Water temperatures may increase at in the immediate vicinity of the locations where new adiation. Overall temperatures of the pool would not increase.

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Because most of the sediment is generated from land use activities in the upper part of the Comment 7

watershed, it is important that the Corps work closely with other agencies and the public to address on going upstream erosion. The DMMPIEIS should provide additional analysis and solutions to the issue.

navigation channel or affect flow conveyance in the Lewiston/Clarkston area. Not all sediment less, the Corps does plan to use the LSMG as a forum for discussion and, potentially, action to The Corps intends to do this through the Local Sediment Management Group. In addition, a entering the lower Snake River system affects navigation or flow conveyance and, thus, the primary objective for the Corps is management of dredged materials that accumulate in the objective of the DMMP is not to find solutions to all sediment accumulation problems. address a broad range of sedimentation issues in the lower Snake River.

Also see response to comment 1, above.

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Comment 8

With almost 3 million cubic yards of sediment accumulating annually in the reservoir, how long

will it be before the next kvee raise is proposed?

Response

areas, was designed to last through the 2074, which is the project life of the Lower Granite Dam. The preferred levee modification alternative, which includes a three-foot levee raise in selected The proposed levee modification is based upon the best available data regarding sedimentation rates in Lower Granite reservoir. The Corps does not anticipate that future levee raises will be required prior to 2074. It is possible that the levee height may need to be re-evaluated for the years beyond 2074.

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Comment 9

The DMMP/EIS does not analyze and discuss potential long-term implication of future levee raises, drawing on a variety of available examples.

information was used to estimate future need for increased flood protection and the likely costs of 'future levee raises" within the economic life of the Lower Granite project are not anticipated and variety of different levee raise and dredging program scenarios from the present through the year 2074, when the 100-year lifecycle of the original project will conclude. The best available The risk analysis presented in the DMMP/EIS Economic Analysis (Appendix C) does consider a Corps does not anticipate that future levee raises will be required prior to 2074 and, as such, that protection. This was incorporated into the development and evaluation of alternatives. were not examined in this DMMP.

evaluate a proposed project by considering the costs of the project over a period of time and comparing those with the benefits over the same period of time. The benefit-cost framework The benefit-cost analysis that was part of the overall hydrological analysis was designed to does take into consideration future implications of a project.

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future generations of Idahoans to provide a realistic description of these projects 75 years and We feel that the Corps, thraigh the DMMP/EIS process, has a responsibility to the public and beyond, and potential ramifications to the public and fish and wildlife.

The dredged material management plan's timeframe is 20 years. The DMMP was developed to be analysis considered anticipated conditions through 2074, the designed economic life of the project, and used the best available data to estimate future needs. Further analysis could be horizon. With respect to flow conveyance and the proposed levee modification, the Corps? as flexible as possible to address future changes in conditions during the 20-year planning required in 2074 to consider how to meet goals for flow conveyance at that point in time.

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Comment 1

We disagree that the placement of dredged material willeffectively mitigate for the lost shoreline and shallow water rearing habitat utilized by juvenile fall chinook under pre-impoundment conditions (Appendix F-57).

The Corps believes that all habitat improvement efforts are based on sound science are worthy of the effort. These efforts are not meant to mitigate for all habitat lost due to the impoundment but to provide incremental changes in the habitat to benefit the populations of endangered fish that may be using it

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Comment 12

How stable will the artificially created habitats be long-term in light of fluctuating reservoir levels or wave action? Appendix F reported that under a no project alternative, about 2 inches per year of fine sediment would accumulate across the bench of the proposed in-water disposal site. Under the Preferred Alternative, won't his silt accumulate on the surface of the sand site. Substrates?

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In the late 1980s to early 1990s, biological investigations were conducted in the Lower Granite Reservoir to study the effects of in water disposal on habitat use by various species of anadromous and non-anadromous fish. Although seven years of research showed a benefit for endangered salmonids, no recent studies have been conducted to determine the continued and long-term viability of these sites as beneficial to endangered salmonids. NMFS has requested that the Corps conduct further investigations into the biological integrity and benefits of the shallow water disposal sites. Bennett et al 1995 reported that the underwater island that was created had moved and redistributed in the deep-water habitat. However, Centennial Island, created in the early 1990s is still in place and does not appear to be moving.

Just downstream from the Port of Wilma, is the largest known single rearing area for fall chinook in Lower Granite Reservoir. It is currently composed of sand and is not being covered with silt. The investigations into the continued viability of the created habitat at Centennial Island, as put forth in the NMFS Biological Opinion (2000), would include an analysis of substrate quality. Dredged material placement site will be monitored to evaluate their stability and effectiveness (Appendix, M.).

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Comment 13

We are not convinced hat the shalbow water habitats created will not accentuate predation by smallmouth bass or northern pike minnows. We assume that higher temperatures and presence of juvenile chinook (prey) will likely be stronger attractans to smallmouth bass than substrate size. Resonse

Bennett et al 1995 found predators on the sandy areas of the created habitat. However, the predators found were in the larval life stage. Upon reaching a larger size, predators dispersed, presumably searching for cover. In addition, larval fish were one of the food components that were found in the stomachs of fall chimok sampled by Curet et al 1993. Fall chimok on an open sandy flat would be more able to avoid predators, than if they were amidst shorelines in warm water that had a great deal of cover.

Numerous scientists from federal, state, university and tribal agencies set up the study design in 1987. The researcher involved with many of the studies was David Bennert, Ph.D., a tenured professor at the University of Idaho. With a multiple year study design, a lead researcher who is a leading expert in this field, and a study design from the regions leading experts, the Corps believes that the science is sound. (Web et al 1987)

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Comment 14

Appendix G mentions that the disposal site near RM 116 was selected because it could provide suitable resting/rearing habitat, would not interfere with navigation, wouldn't harm cultural resources, and would be of sufficient size to accommodate dredged material for several, years. How many years is several, and what other disposal sites exist long-term (i.e. life of the project and beyond)?

Deengree

The Corps identified disposal sites that would be sufficient to accommodate dredged materials over the 20-year term of the DMMP. Plates 8-10, 12-13, and 15-16 illustrate the areas identified for shallow-water habitat creation, including the site at RM 116. The proposed woody riparian habitat establishment at RM 132 (Chief Timrothy HMU, see Plate 1.7) and the site at RM 116 would be sufficient to accommodate dredged materials for at least the first two dredging cycles, based on quantities that are anticipated to be dredged.

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Comment 15

The Corps is still in the process of completing a Feasibility Study to evaluate and screen alternative measures that may increase the survival of juvenile anadromous fish through the Lower Stake Reservoir system. Disposal sites selected should not compromise the ability of the Corps to implement other potential long-term changes in management of the lower Shake River reservoir system.

esponse

Section 1.6 of the DMMP/EIS describes the relationship between the DMMP/EIS and the Feasibility Study. Proposed dredging and dredged material management activities would not be inconsistent with the preferred alternative of the Feasibility Study.

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Comment 16

Over the long-term, created shallow water habitats in combination with the accumulation of 3.2 million cubic yards of sediment annually in the upper end will exacerbate water temperaure problems caused by the original impoundments.

Response

Although the creation of shallow water benches will result in a localized increase in temperature in the shallow water area, dredging the channel to navigation depth will reduce the exposure of the river bottom in the channel to solar warming. The maximum total surface area of the shallow water habitats proposed over the 20-year life of the project amounts to less than 3% of the total surface acreage of Lower Granite Reservoir (246 arcs/8900 acres) and would affect less than 6.8% of the total volume of the reservoir (246 arcs/8900 acres) and would affect less than 6.8% of the total volume of the reservoir considering an average 15 foot depth x 246 acres/483,800 acre feet). Because of the relatively small amount of influence, combined with the increased depth in the confluence area and the amount of water exchange occurring in the reservoir, impacts to the overall reservoir temperature are articipated to be relatively minor. The

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stability and water quality characteristics of the area, and will evaluate the effectiveness of these areas based on the monitoring results. Corps will monitor the habitat creation areas to evaluate the biological activities as well as

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We feel that the phrases "harmless" or "easily avoidable" (Appendix F-60) are not appropriate in describing potential impacts of dredging operations to fish populations. The Corps acknowledges that these terms do not adequately describe the potential impacts to fish. populations, nor cause jeopardy to the continued survival of listed fish species (see Appendix F). The proposed dredging and dredged material management activities may adversely affect fish species, including species listed under the Endangered Species Act. However, the activities proposed under the DMMP are not expected to have significant adverse effects on fish

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Comment 18

Analysis of potential impacts to steelhead is understated in the DMMP/EIS.

juvenile steelhead that have the potential to rear in the reservoir areas during the work window, as well as are likely to adversely affect adults using the confluence area during the winter in-water work window. Equipment and work windows were specifically meant to avoid as many fish as Appendix F of the DMMP/ES states that dredging operations are likely to adversely affect oossible. However, the Corps realizes that some fish may be negatively affected.

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Comment 19

Some potential to entrain these fish exists during dredging operations.

during the summer as subyearlings (Tiffan et al, 2001). According to Williams and Bjorm 1998, Fall chinook typically have an ocean type rearing life history and typically outmigrate seaward overwintered and migrated seaward as yearlings in spring was small and did not effect survival "A small proportion of hatchery and natural subyearling fall chinook salmon residualized and estimates." This indicates that only a small proportion of fall chinook may over winter every migrated early in spring 1997; however, as with fish released in 1995, the number that Response

The Corps agrees that some overwintering fall chinook may be impacted by the dredging operations. Thus the Corps' finding in the Biological Assessment that proposed activities may affect and are likely to adversely affect juvenile fall chinook salmon (See Appendix F). By using the equipment identified in the DMMP/EIS and conducting dredging during periods when the fewest fish would be present in the dredging areas, the Corps is attempting to minimize impacts

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as much as possible.

Comment 20

Response

Careful monitoring during dredge operations, including examination of dredge materials, will be necessary to ensure that lanprey amocetes or other juvenile fishare not entrained.

The Corps intends to have a biologist on site at the beginning and possibly periodically through salmonids and lamprey(See DMMP/EIS Biological Assessment for Anadromous Fish Species). the dredging operations to determine whether dredging operations are impacting juvenile

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Comment 21

The DMMP/EIS provides a fairly detailed analysis of white sturgeon data from Lower Granite, but doesn't cover any potential direct impacts to sturgeon while conducting dredge operations during the winter

found with deep water disposal, and other options exist for beneficial use or placement of dredged materials. See section 2.2.4.1 of the DMMP/EIS. served as a food source for these fish, and sturgeon abundance in these locations increased during was to avoid "wasting" dredged material (i.e., deep water or upland disposal) when other options, benefits to white sturgeon in that the macroinvertebrates that were redistributed in the lower river The DMMP/EIS alternatives would be removing primarily the top 3-5 feet of sediment from the navigation channel, and would not include significant dredging to the original river channel. Bennett et. al. (1995) noted that deep water disposal of dredged material actually had temporary Stargeon were noted as potentially benefiting from dredging down to the original river channel. the disposal periods. BPA's guidance to the Corps with respect to managing dredged materials such as habitat creation or other beneficial uses, were available. No long-term benefits were

The equipment that is planned for use during most dredging operations (i.e., clamshell dredge) addition, areas where the highest concentrations of sturgeon are known to occur would not be would result in minimal entrainment of all mobile aquatic organisms, including sturgeon. In dredged.

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Comment 22

smolt travel time, survival, crowding, and disease exposure of listed fish stocks within each of the Corps dredge program and DMMP for the next 20 years of the project. The programmatic EIS should more thoroughly evaluate the change in velocity, temperature, resting/feeding habitat, migration and survival as it may be affected by the operation and maintenance efforts of the We recommend the DMMP fully assess lower Snake River juvenile salmon and steelhead alternatives of the EIS.

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esponse

The DMMP/EIS evaluates the environmental effects, including the effects on ESA-listed fish species, of the dredging and dredged material management alternatives. This evaluation considered the findings regarding juverile salmon and steelhead migration that were presented in the Lower Snake River Juvenile Salmon Migration Feasibility Study Final EIS. Further, NMFS' Biological Opinion (2000) for the proposed dredging and dredged material management program found that it would not jeopardize listed fish species.

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Comment 23

Modifying the levæss does not appear to fit within the DMMP project purpose. Project modification of increasing levee heights will allow the reservoir to pass the SPF but may also contribute to declining pool and water quality conditions and, thus, increase potential threats to recovering listed fish stocks.

Regnonse

Alternatives that consider levee modifications were included in the DMMP as a means to address flow conveyance while maintaining the designed level of flood protection for the Lewiston/Clarkston area. Raising the levees represents an alternative to increased dredging to provide flow conveyance. The proposed levee raise would not affect normal pool elevation, and is not expected to affect water quality or pose additional threats to recovering listed fish stocks.

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Comment 24

We also request the DMMP be included and assessed within the context of the Lower Snake River Juvenile Salmon Migration Feasibility Report/EIS.

Response

To the extent applicable, the DMMP and Lower Snake River Juvenile Salmon Migration Feasibility Study/EIS were integrated with respect to purpose and subject matter. Section 1.6 of the DMMP/EIS explains the inter-relationship between these two planning efforts and documents. The Section 404(bX1) evaluation for the Feasibility Study references the DMMP documentation as the location of the Corps' analysis of the effects of dredging and dredged material management on salmonids.

Also see response to Save Our Wild Salmon comment 37.

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Comment 25

We recommend the DMMP/EIS include a more fully developed range of alternatives that

provides enhancement of migrating anadromous fish.

Response
The DMMP/EIS examines a broad range of alternatives that are responsive to the stated purpose and need, which is focused on maintenance of the existing navigation channel and flow

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conveyance capacity of the lower Snake River and McNary Reservoirs. The purpose of the DMMP is not to enhance fish habitat. However the issue of providing enhancements for migrating anadromous fishes was a very important consideration in the development of alternatives, consideration of existing environmental conditions and potential environmental effects of the alternatives, and development of proposed mitigation measures. Of note is the fact that several alternatives, including the preferred alternative, have as primary features dredged material management strategies that are specifically designed to provide enhancements for anadromous fishes. Further information on the Corps' efforts involving anadromous fish is available at the Walla Walla District's website:

www.nww.usace.army.mil/planning/ep/fishres/main.html

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Comment 26

The estimated cost of the dredging project is at least \$3 cubic yard for inwater disposal of dredged material. Costs would go up an estimated 34 times for disposal of dredged material in upland sites. We suggest that he final EIS improve its cost-benefit analysis of the dredge program. Because the pood is maintained by the Lower Granite project, each altenative, including the natural river alternative, should be economically assessed using local tax costs that support the waterways/ports, operation and maintenance for navigation, salmon migration, and occasional federal costs like lock repair. We recommend this analysis include the level and potential mingation for declining pool conditions because of sedimentation, and fish and wildlife benefit costs and risks.

Response

The purpose of the DMMPEIS is to evaluate ways to maintain the authorized navigation channel in the lower Snake River and McNary Reservoirs and accommodate flow conveyance over the next 20 years. Navigation is a specific aspect of the stated purpose and need. True "natural river conditions" would not allow navigation and, therefore, are not consistent with the DMMP's purpose and need. Response to Save Our Wild Salmon comment 29 presents an analysis of the benefits and costs of the proposed system management, consistent with the stated purpose and

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idaho Department of Fish & Game, Clearwater Region

Comment 27

The dredge program has been identifed as benefiting chinook salmon by providing critical shallow water habitats free from potential predators. While we believe some of these benefits are real, we ask that the EIS assess the availability of similar habitats under a natural river and without dredging the Lower Granite pool.

A PENONS

The purpose and need of the DMMP/EIS is to evaluate dredging and dredged disposal management alternatives to maintain the navigation channel and flow conveyance in the lower Snake River and McNary Reservoirs. As such, creation of shallow-water habitat as a beneficial use of dredged material was evaluated. Evaluation of shallow-water habitat under a natural river scenario would not fulfill the stand purpose and need of the plan.

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District

Organization
Idaho Department of Fish & Game, Clearwater Region
Comment 28
We request that the Idaho Department of Fish and Game be included on the Regional Dreaging
Team identified in the DMMP/EIS.

Response Idaho Department of Fish and Game is included as a participant in the Local Sediment Management Group (formerly called the Regional Dredging Team) (see Section 1.8).

U.S. Army Corps of Engineers Walla Walla District

Final DMMP/EIS July 2002



Richard P. Wapenax December 12, 2001

DÍRK KEMPTHORNE Emener

Rickurd J. Catignen énuse

Bill Doklen deputy dingsay

Department of the Army Walla Walla District, Corps of Engineers 201 North Third Avenue Walla Walla, WA 99362-1875

The Idaho Department of Paris and Recreation would like to comment on the Draft Bescutive Summary for the above referenced plan and specifically on the dredging impacts at Helis Gate State.

ATTN: Dredged Material Management Plan

Dear Lleutenant Colonel Wagenaar:

11.11 Robert M. Haakenson repen one

The Corps' preferred alternative, Alternative 4, involves no significant change to the way the marina and the Snake River Adment is front of the marien is currently designed and managed. None of the proposed alternatives would negatively affect recreation at Helis Gate State Park.

Glenn & Stockmann Pro

It is our experience that on occasion the main river channel is dredged in front of the mains. We have dredged the mouth of the mains on an annual basis prior to redesigning the entrance. Since the redesign, we have not had to dredge in two years. We also have a need to dredge the acquain mains when the sediment gets too deep for the boats to inanswer, and that cours every several years. The current system of dredging is working adequately and we enabling helis Gate State Park to continue to provide mer related.

Jean S. H.Charlet.

Douglas A. Hancey region six

Sincerely

Thank you fundle opportunity to comment.

recreational opportunities.

p.e. ben 83720 beisz, idaho 83720-0045 for (200) 334-3741 M15-FCE (86E)

ion, Director

Skrytik zádbyss 3637 wsem spefegs awamie

DATO BUATTHEY OF MAKE AND MICHARDA WE 1-800-377-3529

John Crowe, Development Bureau Chief Mike McEltatton, Park Manager, Hells Gate State Park Rick Currarins, North Region Manager /director/dredging.doc

www.idthoparha.org

O-28

Organization
Idaho State Parks and Recreation, Director
Comment 1
None of the proposed diernatives would negatively affect recreation at Hells Gate State Park.
Response
Your comment is noted.

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District



STATE OF WASHINGTON DEPARTMENT OF ECOLOGY AG. But 4760 - Ohmpit, Muhingen 1854-7700 1569 487-4000 - TDO Only (Hunling Impained (1964) 487-4000

January 3, 2002

Dept of the Army Walls Walls Dierrict Corps of Engineers ATTN: Dredgod Material Management Plan 201 North Third Avenue Walls Walls WA 99362-1876

Dear Sin:

Thank you for the opportunity to comment on the deaft cavironmental impact smisment for the Dredged Makerial Management Plan (DMMP/EIS). We have reviewed the DMMP/EIS and have the following comment.

Upland placement of dredged materials will require a solid wate permit unless the materials meet the definition of "Cean dredge spoils" under the applicable solid wate vite in effect at the time of placement. The current rule is Chapter 173-304 WAC. This is currently being amended and will change to Chapter 173-30 WAC.

If you have any questions, please contact Mr. Wayne Krafft with our Solid Waste and Financial Assistance Program at (509) 456-2995.

Sincerely,

Blocca J. Smoon

Rebecca J. Imman Environmental Coordination Section

EIS #01738\$

ce: Wayne Krafft, ERO Heidi Scheibner, ERO

Organization
Sate of Washington Dept. of Ecology, Environmental Coordination Section
Comment 1

Upland placement of dredged materials will require a solid waste permitunless the materials meet the definition of "clean dredge spoils" under the applicable solid waste rule in effect at the time of placement.

Response

The Corps will assess the quality of dredged materials per the methods of the dredged materials evaluation framework. The Corps will comply will all applicable state and federal regulations regarding placement of the dredged materials if they do not meet "clean dredged spoils" definition.

U.S. Army Corps of Engineers Walla Walla District

Final DMMP/EIS July 2002



STATE OF WASHINGTON

P.O. Box 47680 • Olympia, Nashington 98504-7600 (360) 407-6000 • TDD Coly (Hearing Impaired) (368) 407-6006 DEPARTMENT OF ECOLOGY

January 22, 2002

Department of the Army

Walin Walfa District, Corps of Engineers ATTN: Dredged Material Management Plan 201 North Third Ave. Walla Walfa, WA 99362-1876

Dear Sirs:

Please excuse the lateness of our comments; for a considerable time we could not connect with your WEB site in order to review all the Plan documents. In general, we believe the District has done an excellent job in developing and evaluating a 20-year Dredged Material Management Plan for the Snake and Mid-Columbia Rivers.

Recommended Plan/Perferred Atternative is the most dealingle from the perspective of using deedged material beneficially. However, we are econecned that the Plan does not provide for a contingency in a worst case situation. As an example, a worst case situation could arise from the perspective of using dredging of the confluence where the greatest volume of technical situation could arise from the We can envision a situation whereby the sediment proposed for dredging does not quality for beneficial use because of an unexpected result of sediment greatly for a beneficial use. At the same time, if a schout smonetary deficit occurred in the Corpa/Districts O&M Program, there may not be sufficient funds to pay for a higher-cost upland diaposal option. Given this scenario, the only feasible contingency would seem to place the dredged material at a deep water site, as a provided for in the No Change Alternative. We view this scenario as unlikely, but given that the dredged material plan covers a lengthy period of 20 years, we believe it makes sense to retain all Specific Comment - Recommended Plan/Preferred Alternative: We concur that the reasonable and prudent disposal options.

Sincerely,

Heil about for Bordon white

Program Manager Gordon White

O

O-32

Organization

Washington Department of Ecology

Comment 1

(IV)e are concerned that the Plan does not provide for a contingency in the worst case situation. As an example, a worst case situation could arise from the dredging of the confluence where the greatest volume of sediment is dredged on a frequent basis. We can envision a situation whereby the sediment proposed for dredging does not qualify for beneficial use because of an unexpected result of the sediment chemistry or bioassays for possibly a disagreement about what constitutes acceptable sediment quality for a beneficial use). At the same time, if a serious monetary deficit occurred in the Corps/District O&M Program, there may not be sufficient finds to pay for a higher-cost upland disposal option. Given this scenario, the only feasible contingency would seem to the dredged material at a deep water site, as provided for in the No Change Alternative.

Response

Based upon review of sediment quality data and plans to regularly evaluate sediments throughout the term of the DMMP. the Corps believes the likelihood of encountering sediments that are unsuitable for beneficial uses in very low. Nonetheless, the DMMP provides the flexibility to place diedged material uses in very low. Nonetheless, the DMMP provides the flexibility to place diedged materials upland if they are unsuitable for beneficial use. Upland disposal would also be used if dredging occurred in surmer months, within the allowable parameters documented in the DMMP/EIS. The Corps' budgeting for dredged material management would be based on the conditions presented in the DMMP and would, therefore, involve commitments to manage dredged materials that are not suitable for beneficial uses consistent with the provisions of the DMMP. Ultimately, if dredged materials require upland disposal, the Corps would fund upland disposal, consistent with the DMMP.

U.S. Army Corps of Engineers Walla Walla District

Final DMMP/EIS July 2002



State of Washington DEPARTMENT OF FISH AND WILDLIFE to Ward Community, Date 11st, Kennerke, Washington 19829 - (100) 734-7322

Sausery 4, 2002

J. S. Army Corps of Engineers Walls Walls Dienter Attn: Dredged Material Management PlanMe. Jack Sands 201 North Third Avenue

201 North Third Avenue Walls Walls, Washington 99362-1876

Dear Mr. Sands:

SUBJECT: Comments for U. S. Army Corps of Engineers Draft Environmental Impact Statement for the Dredged Material Management Plus for McNary Eleservoir and Lower Snales River Reservoirs.

The Washington Department of Fish & Wildlife (WDFW) appreciates the opportunity to provide comments on the draft Environmental Impact Statement (Eli) for Dredge Material Management Plan (DMMP) in the Snake River and McNary Pool in the Columbia River. Our prinary forest for comments is directed at fish impacts. The need to preserve, protect, and perpetuals anadomous fish, especially faderal listed Threatened and Endangered Species (T & B) under the Endangered Species Art (ESA) is importive.

WDFW reviewed the dredging material management alternatives carefully. We participles in a number of forums through the years to advise the U. S. Army Corps of Engineers (COE) from a State of Washington perspective on dredging activities. Recent science demonstrates brow dredge material management along with full management concepts change, mostly for the better. It's important to make the right management decisions the first time, unless the document is adopted with legal adspitive organize cleamonts that allow the decision makers to tailize the letter and most useful science. It could become a working document. Creating a BIS that is the basis for making decisions for up to 72 years in the feature is difficult. WDFW quittons the COE when adopting diedges and dredge makeral management policies from this BIS DAMP that stoply long time.

During previous dredge material management disconsions, WDFW suggested alternative; that we believe are feasible, reasonable, and should be considered in detail: The flow management option of flushing Lower Granite pool whenever necessary to naturally move sediment rather than fredge.

The draft EIS DAMAP explains how effective the free-flowing reach carries mapsinded malarial. Why not increase flows to simulate making inver-conditions and naturally move suggended material?

COE Draft EIS Dredge Material Management Flan Japany 4, 2002 Pare 2

2 cont.

The draw down alternative in the DMMP is not the same as a flushing event. Additionally, the draw down alternative is not extensively addressed in the DMMP, so comparison is difficult. Is the draft Eliz DMMP draw down alternative based on data from the 1992 draw down of Lower Grenite pool? Keep in mind, the 1992 Stakes River flow was an extremally low flow year and may not represent the type of flushing we in engageting. An entual flushing event of Lower Granite pool should prevent sediment deposition. Flushing would also remove some existing deposite. It creates the type of tiver caudition that simulates a instantial doty event.

There are memorous benefits to ESA listed fish species if flushing is conducted in concert with peak juvenile salmonid our migration. Under flood conditions juvenile salmonids utilize high turbidity to svoid predators. We know that the existing low flow reservoirs are a haven for predatory species. The increased valocity helps juvenile salmonids orient naturally and they leave the impounded areas sconer, increased flows over and second the dawn decreases mortality. The increased flows over and sound to do where that is benefited in salmonids throughout all the impounded waters of the lower States and Columbia River.

A flushing event can be limited to a short period of time when the natural high rate of sediment suspension and/or deposition occurs. Another option would be to pulse flushing events, (i.e., twice a year) that equals one laterial general. The Lower Granitz pool draw down could be limited to whatever level or period is necessary to move the sediment down river. In the draft BIS DAMP, the COE doesn't throughly addraw the draw down alternative. The 1992 draw down scenerio (i.e., greater than 60 feet draw down) is probably not necessary. It may only require a 10 to 15 feet draw down to move the sediment. The appropriate level and method of draw down needs to be

Most of the sadiment would settle out in the deep water areas of the pool, "which abready has the expectly to hold another 120 million cubic yards of sodiment. The draft E1S notes that 3.1 million cubic yards of sediment are deposited in the Lower Granisi pool every year, and assuming less than full deposition under flushing conditions, that still provides 40 more years of natural conditions during out migration. That's also 40 years of cost savings because of limited dredging.

Economic impacts on commerce are important. Burge traffic would be impacted during this period. Atthough, the heaviest burge traffic is during or after agricultural harvests. The high flow period conductive to a flushing event is before harvest, typically during the month of May. Flushing is an altimative that may little deedging asseds in the Lower Grante pool, which would offset the concentration or commercia.

The draft EIS DATAP states that above 300,000 cft, the COE predicts that elevation 738 cannot be maintained in the Lewiston area. The draft EIS notes though that at least notil 2020 the levee system will protect Lewiston during a 100-year flood event. If the COE manages the Clearwaner

Best Available Copy

COE Braft EIS Brodge Material Management Plan Jaduary 4, 2002

2 cont.

WDFW would like the COE to evaluate the flushing alternative more extensively. We don't believe the draft EIS DMMP adequately addresses this as an alternative. Under the evaluation criteria for the draft EIS DMMP a flushing event would 1) lower dredging costs, 2) simulate natural river conditions, 3) be beneficial to juvenile salmonials, and 4) mármain flow conveyunce of the Lower River and Snake River confluence elevation by finaling they could extend the life of the current evee system.

Other general comments on the draft EIS DMMP:

Cranite reservoir.

revegetation, are all good ideas. We're congerned that the preferred alternative selected by the COR, creates an underwater habitat that is not within the critical zone for juvenile samonids, especially fall Chinook. It appears that because of logistics, the dredge material would be dumped only in depths greater than 10 feet. As Dr. Dave Bormett and colleagues from the University of Islaho point out, 10 to 20 feet depths are important, but the closer to show, (i.e., rare to 10 feet depths is more critical. The Castennial island project demonstrates that fact. WIEW recommends that the COE address the zero to 10-foot doubt zones in order to resemblish proper functioning near-abone habitet that is greferred by juvenile salmogids. How wee the shoreline created at Conformal Beneficial wass of dredge material - WDFW supports the concept of beneficial uses for the chedge material. The creations of shoreline or island habitat and covering rip 129 shorelines followed by Spinds Another beneficial use of dresign material WDFW recommends is to sup or cover in 179 shouling great. As we discussed in the last regional dredge team advisory meeting, subset the COB takes the farst step in capping rip rap areas, it is unlikely mitmed companies or other jurisdictions will. There are pleaty of grouns and dites along the Snake and Columbia Rivers that would lose very few functions if covered with dredge natural and revegetated with woody vegetation. Structural vegetation also provides juvernile salmonids whige for feeding and resting during high flow events. integrity list? threatened. Choices where views are not impacted are possible. Minimal maintenance by Park officials would promote woody plants that do not pipe through the structure. During a major flood event the vegetation acts to distipate flood energy and prevent enesion. The

Large Woody Debris - Managing large woody debris (LWD) within reservoirs is another issue that WDFW feels is neclected. It's linked to the deaft EIS DMMP when beneficial tags of dredge materials are considered. If flushing is williged as a management tool there will probably be LWD impacts in the Lower Caralte Inchesty. WDFW prefers to leave LWD in the river system, but if removed is necessary it should be used for the benefit of flat, if should not convening rip represent used as beneficial uses of dredge material, why not incorporate LWD to increase habitat complemity resulting in increased benefits to juvenile salmonists?

*

COL Denft EIS Deudge Material Management Plan January 4, 2002

aborelina. The feases and the COE vegetation removal policy and maintenance practice is in conflict with the restoration probest proposed under the beneficial use proposed in the dark EIS.

DMMP. Existing COE policy does not rely on solence developed for the State River or Columbia River leves systems. They use Missisalppi River solence. It doesn't apply to our eastern Wachington river systems. Northwest research exists and it contradicts the Mississippi River study, identify the differences and communicate with the jurisdictions of responsibility, so that aboveline atives that are more advironmentally sound. Levees prevent naturally occurring flood plain functions, many of which are beneficial to fish. If lowes are necessary, WDFW prefers settack levess that emble the flood pien to function properly. Additionally, the COS and most local jurisdictions that lease the leves areas don't practice sound vegetation menagement sloag the and vegetation restoration along the levees is not just short term and the beneficial uses are not ievess - In general, WDFW opposes further leves construction, especially when there are ø

The draft BIS DMMP states that the Lower Crassius pool has the capacity to extend the life of the Lewiston levee until 2020. Why is there a proposal to start construction in 2005? If mecastrary, we REZEM the COE adopt an adoptive management approach to building this levee. Bither conduct a more timely EIS (say in 2015), or wait for better scientific methods to evaluate impacts.

Eydraulie Drudging. As proposed in the druft HIS DAMA, small-senals hydraulic designing may be appropriate if reviewed on a case-by-case basis. WDEW would request mentioning of each hydraulic project for juverile fish mortality. Federal and sense listed species should be the primary conson. although other species should be monitored also. If monitoring results the primary conson. although other species should be monitored also. If monitoring results demonstrate no mortality massis on luverile submonits then further use of the hydraulic method might be 0

Sediment traps - WDFW agrees that is not a viable alternative.

Wahington. Mork windows identified for the Columbia River conflict during the month of March. Recent research indicates invended fall Chinosk emergence is well underway by March I within the McNary pool. With a few minor exceptions, and because of flat impacts. WDFW doesn't sulturing any in-water projects beyond March I within the McNary Pool. WDFW remains flexible during low flow periods of the number. A minor work window exists for August, but projects have been permitted from mid July to mid September depending on in-season variables and flat impacts, ls-Water Work windows - Work windows identified for the Snake River ere similar to the State of 2

Local Sediment Management Group (LSMG) - This is a good idea if the LSMO is well informed local initialistics provide regular input, and the advice from the group is followed. Ξ

Ċ

COE Draft EIS Dredge Maferial Management Plan January 4, 2002 Page 5 Washington State Hydranics Code (RCW 77.45.100) · WIFFW requires a Hydraulic Project Approval (HPA) permit for any work conducted in waters of the State of Washington. Any directing related activity, including beneficial users, and levee construction, requires a HPA permit either for the COB or the constructor conducting the work.

Thank you for the opportunity to provide this information. WDFW intends to cominue participation in the LSMG. We'll provide the technical support to the LSMG on incurs and projects that address both abort and long term fith and wildlife measurement options. Hopefully, the final EDS DMMP will be as complete as possible in assensing the needs and benefits for the fith and wildlife associated with dredge activities in the Snake and Columbia River. WDFW appreciates the COE efforts regarding this project. If you have any questions, please call me at 509 724-7452.

Sincernly,

Cast E. Jaffrier Paul E. Laktriere Area Habita Biologia intropol@dfw.wa.gov oc: Grandstaff, WDFW, Region 1
Robinetts, WDFW, Region 1
Mather, Ecclogy, Spokane
Gullet, NMFS, Ellensturg
Volkman, CTUR,
Mendel, WDFW, Region 1
Burkle, WDFW, Region 6
Hansen, Idako Fish & Game, Lewiston
Erkel, COE, Spokane

State of Washington Dept. of Fish and Wildlife, Area Habitat Biologist

WDFW cautions the COE when adopting dredge and dredge material management policies from this EIS DMMP that apply long term. Comment 1

Response

our comment is noted.

State of Washington Dept. of Fish and Wildlife, Area Habitat Biologist

Comment 2

believe the draf EIS DMMP adequately addresses this alternative, The draftEIS DMMP explains alternative is not extensively addressed in the DMMP, so comparism is difficult. The appropriate how effectively the free-flowing reach carries suspended material. Why not increase flows to economic, ecobgical, and logistical benefits that could accrue from each of these additional level and method of draw down needs to be determined and explained. There are numerous HDFW would like the COE to evaluate the flushing alternative more extensively. We don't simulate natural river conditions and naturally move suspended material? The draw down alternative in the DMMP is not the same as a flushing event. Additionally, the draw down alternatives, and as such both should be treated in the DMMP/EIS.

Response

outmigration has some potential. One of the major drawbacks of drawing the reservoir down to passage system at Lower Granite Dam as unusable. There are two alternatives for fish passage that degree during the fish outnigration period would be the rendering of the juvenile fish The drawdown of the reservoir of 10 to 15 feet during the annual flood season and smolt without the juvenile bypass systems, turbines and the spillway.

and put fish in trucks for transporting downstream. Gatewell residence time, however, also plays (Swan et al. 1994), up to 18 would need to be constructed at a cost that may exceed the dredging costs for the 20-year course of action. Another alternative would be to periodically dip gatewells a factor in that depending on the gatewell environment, conditions for fish can be detrimental if would be trapped in the gatewells with no opportunity for exit, and a great number could eventually die there. Although a lift tank was tested in 1994 for removal of fish from gatewells turbine, with possibly higher than desired mortality rates. In addition, a large number of fish For turbine passage, the traveling screens could be pulled, and fish would pass through the fish spend too long in there.

(Eppard et al, 1999) for fish spilled during high and 100% spill scenario. However, some fish that spill on, versus spill off without regard to powerhouse operations). If an eddy is set up, it has the powerhouse operation, a large eddy would be set up in the tailrace of the dam. A predator study Lower Granite Dam tended to seek out the lower velocity areas (although this study mentioned potential to continually cycle juvenile fish within the eddy and constantly expose them to more (Bjornn and Piaskowski 1999) showed that during spill operations, predators in the tailrace of passed during these scenarios did experience longer tailrace residence times (Eppard -NMFSpredators. Only a few minutes of migration delay were seen in the Ice Harbor Dam tailrace If an all-spillway route were determined to be the most appropriate passage route, with no Personal Communication, 2002).

In addition, spawning migrations of fish into Alpowa Creek may be blocked by drawdown

Final DMMP/EIS

U.S. Army Corps of Engineers

Response to Comments

drawdown occurred. Invertebrates that use the Port of Wilma, Centennial Island and other known invertebrate species would be negatively affected, other species that prey on them including white perations. Rearing areas important to fall chinook and sturgeon would be rendered less usable if primarily crayfish to a diet composed of more juvenile salmonids. This was due primarily to the rearing in the area either during drawdown or after water up. Bennett (1995) demonstrated that sturgeon, channel catfish and other predatory species all have the potential to change predation largets and negatively affect salmonid smolts. Disruption of the food web on a repetitive basis shallow water rearing areas would be desiccated and would provide little to no benefit to fish after the drawdown event, smallmouth bass changed their predation targets, from preying on would cause overall detrimental effects to the limnological characteristics of the reservoir. reduction in the number of invertebrate species caused by the drawdown. Because these

Snake River Juvenile Salmon Migration Feasibility Study: Interim Status Report, December 1996 For further details on seasonal drawdowns, see the System Configuration Study, Phase II, Lower (incorporated by reference). Also see response to Idaho Department of Fish and Game comment

Organization

State of Washington Dept. of Fish and Wildlife, Area Habitat Biologist Comment 3

habitat that is not within the critical zone for juvenile salmonids, especially fall chinook. WDFW recommends that the COE address the zero to 10-foot depth zones in order to restablish proper We're concerned that the preferred alternative selected by the COE, creates an underwater unctioning near-shore habitat that is preferred by juvenile satmonids.

depositing the material. The second reason was that this depth is within the photic zone and is, therefore, conducive for productivity of plankton and invertebrates, and feeding for fall chinook. The 10-foot depth was chosen for two reasons. The first reason was the cost and logistics of A shallower depth is possible but would also be more expensive.

River Compensation Plan. It is possible to use dredged material to create shallow water areas or riparian area, specifically the Woody Riparian Habitat Project, a component of the Lower Snake however, is that the Corps must plan dredged material disposal in areas where cultural resources problems further downstream. Although the riprap habitat produces invertebrates for fish to eat, create. In addition, railroad berms and levies are often quite steep and may not be conducive to cover riprap in conjunction with the Woody Riparian Habitat Project. One of the major issues, Other programs in the Walla Walla District are currently addressing the issue of trees in the will not be impacted. This may limit the amount and the continuity of habitat the Corps can holding sediment in place, also losing the continuity of habitat and creating sedimentation he variation of habitat versus a single type of habitat could be a benefit.

State of Washington Dept. of Fish and Wildlife, Area Habitat Biologist

Another beneficial use of dredge material WDFW recommends is to cap or cove rip-rap horeline areas. Comment 4

Response

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material and plantings remain over the rip-rap. In addition, rip-rapped slopes are often quite steep It is possible to use dredged material to create shallow water areas or cover as a beneficial use of and may not be conducive to holding sediment in place, which in turn could lead to the loss of must be planned in areas where cultural resources and threatened and endangered fish species dredged material. One criteria used for selecting areas for beneficial uses of dredged material considerations would need to be carefully evaluated in beneficial use of dredged material that would not be adversely affected. This may limit the amount and the continuity of habitat the Corps can create. In general, the stability of dredged material placed on shoreline areas is a concern as water velocities along rip-rapped shoreline may be too great to ensure dredged continuity of habitat and/or creating sedimentation problems further downstream. These may include covering rip-rap on shoreline areas. Although the riprap habitat produces invertebrates for fish to eat, the variation of habitat versus a single type of habitat could be a benefit. The Local Sediment Management Group provides a forum for identifying opportunities and local sponsors for potential placement of dredged materials over riprap to create viable shoreline habitat.

State of Washington Dept. of Fish and Wildlife, Area Habitat Biologist

materials are considered. If flushing is utilized as a management tool there will probably be LWD Large Woody Debris - Managing large woody debris (LWD) within reservoirs is another issue that WDFW Jeels is neglected. It's linked to he draft EIS DMMP when beneficial uses of dreage impacts in the Lower Granite forebay. WDFW prefers to leave LWD in the river syskm, but if removal is necessary it should be used for the benefit of fish.

Response

riparian area, specifically the Woody Riparian Habitat Project, a component of the Lower Snake River Fish and Wildlife Compensation Plan. It is possible to use dredged material to create shallow water areas or cover riprap in conjunction with the Woody Riparian Habitat Project (see Other programs in the Walla Walla District are currently addressing the issue of trees in the response to Comment 4).

fast enough to accrete anything more than fine material behind the logiam or LWD. There are no specific plans to introduce LWD in association with the Woody Riparian Habitat Program. However, with the Woody Riparian Habitat Project, LWD may eventually begin accruing along flow. In the reservoir system, even at high flows, the water velocities in most of the areas are not form of engineered logiams. Some of the functions of these logiams include restoring habitat by arge woody debris (LWD) is often used in stream habitat restoration plans, many times in the banks and reduce erosion. One of the key components required for LWD to work is sufficient creating cover and by attempting to accrete sedimentary materials and, thus, help to stabilize the shoreline.

structure-oriented piscivores (including smallmouth bass and bass crappie which prey on juvenile In addition, the use of LWD in a warm water system versus a coldwater system may result in the (1995) demonstrated at Centennial Island that the riprap on the riverside of the island tended to replacement of salmonid habitats with introduced species, namely predators. Bennett et. al. concentrate more predators than the sand areas. Caution should be given to the addition of structures into the system which may have the potential to increase introduced species of salmonids) to accumulate in these areas and create concentrations of predators along the

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District

Appendix O Response to Comments

shorelines, thus being detrimental to salmonid populations.

State of Washington Dept. of Fish and Wildlife, Area Habitat Biologist

Comment 6

In general, WDFW opposes further levee construction, especially when there are alternatives that many of which are beneficial to fish. If levees are necessary, WDFW prefers setback levees that Levees prevent naturally occurring flood plain functions, enable the flood plain to function properly. are more environmentally sound.

No new levees or linear expansion of existing levee systems are proposed as part of the DMMP. The existing Lewiston levees are an essential part of Lower Granite Project. Given surrounding land uses, it is not practical to move those or new levees back. If those levees were to be setback, the change in flood plain area would be so small that there would be no measurable change in function.

State of Washington Dept. of Fish and Wildlife, Area Habitat Biologist

Comment 7

vegetation management along the shoreline. The lessee and the COE vegetation removal policy beneficial use proposals in the draft EIS DMMP. Existing COE policy does not rdy on science and maintenance practice is inconflict with the restoration projects proposed under the The COE and most local jurisdictions that lease the levee areas don't practice sound developed for the Snake River or Columbia River levæ systems.

Some planting in shoreline areas would be possible as part of the beneficial uses considered in the DMMP. In general, the Walla Walla District manages vegetation on levees within its jurisdiction maintenance and beneficial use of dredged material are not the same programs. Some vegetation removal from levee faces is necessary. Vegetation growing on benches off the base of the levee is not targeted for removal. Dredged material can be used to extend existing benches or create Proposed planting benches at the toe of the lovee would not conflict with the Corps' vegetation removal policy. Trees and strubs would be planted no closer than five feet from the levee toe. in an environmentally sound manner consistent with the project purposes. In addition, levee new benches that could support riparian vegetation.

State of Washington Dept. of Fish and Wildlife, Area Habitat Biologist

Comment 8

We suggest the COE adopt an adaptive management approach to building this levee. Either conduct a more timely EIS (say in 2015), or wait for better scientific methods to evaluate impacts.

These analyses indicate that The Corps proposes to employ an adaptive management approach to the implementation of DMMP. With respect to the proposed levee modification, however, the Corps has conducted economic (benefit/cost) analyses of the flow conveyance measures. These analyses indicate it the greatest benefits (in terms of avoided damages) would be realized if the levee raise were

Final DMMP/EIS July 2002

Organization

State of Washington Dept. of Fish and Wildlife, Area Habitat Biologist

Comment 9
With regards to hydraulic dredging, WDFW is reluctant to agree to this method of dredging. As With regards to hydraulic dredging, Moproposed in the draft EIS DMMP, small-scale hydraulic dredging may be appropriate if reviewed on a case by case basis. WDFW would request monitoring of each hydraulic project for juvenile. If sh mortality. Federal and state listed species whould be the primary concern, although other species should be monitaling in a lithough other juvenile salmonids then further use of the hydraulic method might be considered.

Response

As proposed under the DMMP, hydraulic dredging would be employed in very limited and specific instances (see Section 2.8.1 of the DMMP/EIS). Any hydraulic dredging would be undertaken within the conditions of NMFS' Biological Opinion. Biological monitoring of the hydraulic dredging, if employed, would be performed. See Appendix M (Monitoring Program).

Organization

State of Washington Dept. of Fish and Wildlife, Area Habitat Biologist

Comment 10

Work windows identified for the Columbia River conflict during the month of March. Recent research indicates juvenile fall chinook emergence is well underway by March I within the McNary Pool. With a few minor exceptions, and because of fish impacts, WDFW doesn't authorize any in-water projects beyond March I within the McNary Pool. WDFW remains flexible during low flow periods of the summer.

Response

The Corps is not aware of any information of eggs of fall chinook salmon incubating in the McNary Pool. The Corps does recognize, however, that the areas considered for dredging in McNary Pool all have the potential for salmon rearing, based on Easterbrooks studies in Casey Pond. Although the Corps can attempt to avoid working in March, the negotiated agreement for in-water work windows was established with NMFS. The US Army Corps of Engineers - Seattle Regulatory, and the US Fish and Wildlife Service (Special Public Notice, Final Regional Conditions, 401 Water Quality Certification Conditions, Coastal Zone Management Consistency Responses, for Nationwide Permits for the Seattle District Corps of Engineers for the State of Washington, 16 June 2000).

reanization

State of Washington Dept. of Fish and Wildlife, Area Habitat Biologist

Comment 11

LSMG - This is a good idea if the LSMG is well informed, local jurisdictions provide regular input, and the advice from the group is followed.

Response

The Corps intends to keep the LSMG informed and the consider recommendations from the group when making decisions about dredging and sediment management.

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District

Organization

State of Washington Dept. of Fish and Wildlife, Area Habitat Biologist

Comment 12

WDFW requires a Hydraulic Project Approval (HPA) permit for any work conducted in waters of the State of Washington. Any dredging related activity, including beneficial uses, and levee construction, requires a HPA permit either for the CDE or the contractor conducting the work.

The Corps will consider WDFW comments on all dredging related activities, however, the Corps disagrees that the Corps or Corps' contractors are required to obtain a Washington State HPA permit for work on Corps' projects. The Corps does, however, comply with all applicable state laws and regulations. As part of the pre-contract environmental compliance review, the Corps will coordinate with regulatory agencies, including WDFW.

Final DMMP/EIS July 2002



Washington State
Department of Transportation
Busine 8. Machenial
Secrety of Transportation

South Control Region 2508 Rushin Road, Union G. P.O. Box 12580 Yakima, WA 26509-2509 \$08-\$77-1600 TTY: 1-600-833-6386 www.wedct.we.gov

January 7, 2002

Department of the Army Walls Walls District Corps of Engineers Attention: Dredged Material Management Study 201 North Third Avenue Walla Walla, Washington 99362-1876

Attention: Jack Sands

U.S. Army Corps of Engineers, Walls Walls District Dredged Material Management Plan SR 129 Subject

Dredging. Part of the Environmental Assessment proposes dredging at the confluence of the Stake and Clearwater Rivers in the Lewiston, Idaho/Clearwater, Washington area, but made no mention of the possibility of raising the pendie of State Highway 129, or say other direct impacts to the state thighway system. Recently, we discovered that Alternatives 2, 3, and 4 of a proposed dredging plan by the Corps would involve staining SR 129. This was not part of the October 2000 proposal. Since our November 13, 2000 letter, we have not received any notice from the Corps of any changes to the proposal. On November 13, 2000, we commented on the Environmental Assessment (October, 2000) for the Corps' Interim Lower Snake, Clearwater, and Mid-Columbia Rivers We would like to offer the following general comments at this time.

- Alternatives 2, 3, and 4 would significantly impact the state highway system by
 raining SR 129. Raining SR 129 would cause a number of short-term impacts during
 construction. Traffic would have to be re-routed during construction, and all the
 custing interactions and driversy approaches would need to be modified (or
 possibly reviewed for elimination). The proponent will be responsible for all costs associated with raising SR 129.
- Any proposed use of dredged material for a roadway base for any state highways would need to be reviewed and approved by WSDOT.
- transported by the inland waterway system to utilize that means without using and impacting the state highway system. As stated in our previous letter, we prefer any dredged material that can be ų,

Mr. Jack Sands, US Army Corps of Engineers – SR 129 & Clarkston Dredging Proposal January 7, 2002

maintained rights of way, the applicant must obtain his appropriate permit from WSDOT prior to transporting any of these hauls. Also, it will be the applicant's responsibility to keep and maintain the state highways, including any interchanges, free of any of their debris or hazardous material. Any spilled material shall be If there will be any oversized equipment or overweight material hauls on WSDOT cleaned up at the applicant's expense. WSDOT would like to work with the U.S. Army Coups of Engineers concerning the specifics of any proposal affecting SR 129, or any other impacts to our state highway system. Thank you for the opportunity to review and comment on this proposed project. If you have any questions concerning our comments, please contact me at (509) 577-1630,

TAS: rb/jig

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Gary Bosman, Environmental Program Manager Bob Martin, Area 4 Maintenance Superintendent File #3, SR 129

openial Seriefing plands

Organization

WSDOT South Central Region

Alternatives 2, 3, and 4 would significantly impact the state highway system by raising SR 129. Comment 1

intersections and driveway approaches that are described in the comment. The specifics and plans for these roadway activities would be coordinated with WSDOT. The cost of these The raising of SR 129 would require the temporary re-routing and reconnection of existing connections would be a part of the levee raise project cost and be borne by the Corps of Response

Organization

WSDOT South Central Region

Comment 2

Any proposed use of dredged material for a roadway base for any stae highways would need to be reviewed and approved by WSDOI

Response

proposed roadwork. If the roadway being considered for a dredge material beneficial use were a Washington State highway, federal specifications and WSDOT requirements would need to be The use of dredged material for a roadway base is not being considered for any currently considered when developing plans for constructing such a roadway base.

Organization

WSDOT South Central Region

Comment 3

We prefer any dredged material that can be transportal by the inland waterway system to utilize that means without using and impacting the state highway system.

Response

would require such a truck haul would be coordinated with WSDOT before the plan is finalized highways would only be used when a specific beneficial use of dredged material requires overland transport that cannot be done by any other method than truck haul. Each plan that Wherever possible, the preferred plan uses barge transport of dredged material. The state and construction is initiated.

WSDOT South Central Region

rights-of-way, the applicant must obtain the appropriate permit from WSDOT prior to transporting any of these hauts. Also, it will be the applicant's responsibility to keep and maintain the state highways, including any interchanges, free of any of their debris orhazardous material. If there will be any oversized equipment or overweight material hauls on WSDOT-maintained Any spilled material shall be cleaned up at the applicant's expense. Response

The provisions stated in the comment would be reviewed with WSDOT when a truck haul over state highways is required to support the beneficial use(s) of dredged material. All applicable

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District

Appendix O
Response to Comments

permits and requirements will be discussed with WSDOT, addressed in the plans and contracts, and permits obtained before the truck haul begins.

Final DMMP/EIS July 2002



STATE OF WASHINGTON

WASHINGTON STATE PARKS AND RECREATION COMMISSION 7150 Channathe Lane + P.O. Bus 42629 + Ofenpin, Wankington 98204-2550 + 13401 982-8590 internet Addings http://www.parla.ung.pv
TDD 770/recommunications Device for the Dasit (240) 546-1733

January 7, 2002

Mr. Jack Sanda, Project Manager U.S. Army Corps of Engineers Walla Walla, WA 98362-1876 201 North 3th Avenue Walls Walls District

Draft Dredgod Maleriai Managumen i Plan and Environmental Impact Statement – McNary Reservoir and Lawer State River Reservoirs Subject

Dear Mr. Sands:

I am writing in response to the Druß Drußged Material Mangemeat Plan and Environmental Impact Statement for the McNary Reservoir and Lower Saake River Reservoirs (DBRS). After reviewing the DRIS State Parks has the following comments.

Recreational Dredgiag

17 of the DELS. However, dredging specifications are vague in regards to existing facilities at each respective sits. Although the DEES sense each alternatives shilly to maintain use of cristing restrational facilities. State Parts is unman whether deeding sativity at respective parts includes areas accessery to maintain existing recreation, in The U.S. Army Corps of Engineers (Corps) has identified long-term drodging scrivit adjacent to state parks located on the States and Columbia Rivers on Disice 5, 11, 13 particular

Plate 5, Sacajawea State Park: ~

it is difficult to ascertain whether dredging activity will include the existing boat basin, boat moorage area, and the area from the boat basin to confluence with the Columbia River. Dredsing of these area is necessary to maintain recreational use of the Sacrainvets State Park water accessing the

Plate 13, Central Ferry State Part: has the Corps considered access to the Central Ferry State Park Bost Basin? Parks dredged the bost bean area 10 years ago, and believes that future dredging

may be required due to sediment transportation from the creek emptying into the basin.

is the water access facilities for the park are located at the west end of Silcott Island. However, there is no deciding location identified west of the island. In State 2 assure recreational access to Chief Timothy State Furt, the west end of the island, should be dredged. Plate 17, Chief Timothy State Park

Shaw Parks requires a minimum depth of three feet, Minimum Operating Pool, although a four foot depth is preferred, to provide access for recreational watercraft to best faunches, as well as temporary and overnight moorage facilities. If the Corps has commissed soundings standynis indicating a three foot minimum depth will not be maintained in these was dunies the life of your proposed dredged material management plan. State Parts world like to work with the Corps to address Pulps, recreational facilities in your DEIS. ¥n

Lyon's Ferry HMU

The DEES states that upland disposal activities would have long-form, minor, indirect effects or Lyon's Ferry State Park, but fails to identify what the effects may be. Parks is conserned that unmanaged spland disposal would create particulate and noxious weed impacts on Lyon's Ferry State Park due to the prevailing wind direction. Without further mitigation, Parks believes that the lack of dues and noxious weed confusions it the Lyon's Ferry HMU may create a major, direct impact on Lyon's Ferry State Park. Because specific measures to mitigate such impacts at the Lyon's Ferry State Park.

We look forward to working with the Corps to enhance necreational opportunities at recreational access sibre and to minimize loopacts to recreation land and part merr. If you would like to discuss issues identified in this letter further, please feel free to contact me at (360) 902-8632. Thank you for your time.

Sincerely,

Chris Regan, Environmental Specialist, Environmental Program

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Reade Obern, Sacajawes State Park Manager
Mark Truitt, Lyon's Perry State Park Manager
Bill Byrne, Central Ferry State Park Manager
Thomas Pew, Chief Timothy State Park Manager
Jim Harris, Eastern Region Manager
Jim Harris, Eastern Region Steward
Marles Hongen, Maintenance Chief
James Hongen Manager
Bill Pittaier, Bartern Region Planner
Mark Schulz, Eastern Region Planner
Tony Rapozo, Eastern Region Environmental Specialist
Tony Rapozo, Eastern Region Environmental Field Office Manager

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Washington State Parks and Recreation Commission, Environmental Program

The US ACE has identified long-term dredging activities adjacent to state parks located on the specifications are vague in regards to existing facilities at each respective site. Although the DEIS states each alternative's ability to maintain use of existing recreational facilities. State Parks is unsure whether dredging activity at respective parks includes areas necessary to Snake and Columbia Rivers on plates 5, 11, 13, and 17 of the DEIS. However, dredging maintain existing recreation.

Parks as the DMMP is implemented. The only recreational facilities that would be dredged in the The Corps has not completed soundings specifically for Washington State Parks' facilities in the study area. The Corps can accommodate non-Federal dredging on a cost-reimbursable basis, such as that requested by Washington State Parks, and will coordinate with Washington State short term are described in Section 2.8 of the DMMP/ES.

Washington State Parks and Recreation Commission, Environmental Program

the existing boat basin, boat moorage area, and the area from the bair basin to confluence with the Columbia River. Dredging of these areas is necessary to maintain recreational use of the Plate 5, Sacajawea State Park: It is difficult to ascertain whether dredging activity will include Sacajawea State Park water access site.

Plates 2-17 have been updated to better illustrate potential dredging locations. The maps do not necessarily show all of the locations that may be dredged as some areas may not be identified until sometime in the future. The boundaries of the potential dredging locations are not to scale and do not reflect exactly what area may be considered for dredging in the future.

Also see response to comment 1.

Organization

Comment 3

Washington State Parks and Recreation Commission, Environmental Program

Plate 13, Central Ferry State Park: Has the Corps considered acæss to the Central Ferry State Park Boat Basin?

Response

See response to comment 1.

Organization

Comment 4

Washington State Parks and Recreation Commission, Environmental Program

west end of Siicott Island. However, there is no dredging location identified west of the island. In order to assure recreational access to Chief Timothy State Park, the west end of the island should Plate 17, Chief Timothy State Park: The water access facilities for the park are locatedat the

Final DMMP/EIS July 2002

Walla Walla District U.S. Army Corps of Engineers

be dredged.

Response

implemented in order to identify non-Federal dredging that may be needed at recreation facilities. See response to comment 1. The Corps can incorporate non-Federal dredging into its overall dredging plan (non-Federal dredging would be done on a cost-reimbursable basis), and will coordinate with Washington State Parks and other recreation agencies as the DMMP is

Organization

Washington State Parks and Recreation Commission, Environmental Program

Comment 5

your proposed dreiged material management plan, State Parks would like to work with the Corps If the Corps has completed saundings analysis indicating a three foot minimum depth will not be maintained in these areas (recreational boat launches and moorage facilities) during the life of to address Parks' recreational facilities in your DEIS.

See response to comment 1.

Washington State Parks and Recreation Commission, Environmental Program

direct impact on Lyon's Ferry State Park. Because specific measures to mitigate such impacts are not included in the DEIS, State Parks cannot adequately address these concerns. unmanaged upland disposal would create particulate and noxious weed impacts on Lyon's Ferry The DEIS states that upland disposal activities would have long-term, minor, indirect effects on State Park due to the prevailing wind direction. Without further mitigation, Parks believes that the lack of dust and noxious weed containment at the Lyon's Ferry HMU may create a major, Lyon's Ferry State Park, but fails to identify what the effects may be. Parks is concerned that

Response

regetation similar to plant species present in the surrounding areas. The Corps would monitor the not be likely to cause windblown dust issues at the time of placement. In addition, as outlined in site during use and restoration of the site to minimize fugitive dust to the extent practicable. The Corps would also coordinate with Washington State Parks to crisure noxious weed concerns were development and disposal activities that would take place at that site (e.g., noise, visual impacts, etc.). The Corps does not propose to conduct any "unmanaged disposal" of dredged materials at Appendix D of the Draft DMMP/EIS, the site would be restored by placing six inches of topsoil this site. Dredged materials that would be placed at the site would be wet and therefore would on final slopes, re-seeding the area as part of a continuing restoration program, installing a The anticipated effects of upland disposal at the Joso site were largely associated with the temporary irrigation system to establish vegetation growth as needed, and re-establishing addressed if this alternative were pursued.

Final DMMP/EIS July 2002



309) 758-5541 * Policec(509) 758-1684 * Firec(509) 738-6681 * Fanc(509) 758-1670

EDD FINIS Street - Claristica, WA 99403

December 27, 2001

Department of the Army
Walla Walla District, Corps of Engineers
ATTN: Developed Material Management Plan
2001 North Third Avenue
Walla Walla, WA 99362-1876

RE: Comments to the Drodged Material Manegement Plan

Doer Sire:

Thunk you for a copy of the Executive Summary of the Dredged Manarial Management Plan and Environmental Impact Statement of Malviary Reservoir and Lower State River Reservoirs. Specifically regarding your recommended/preferred alternative #4, Maintenance Dredging and with Beneficial Use of Dredged Material and a 3-fixet (0.9-m) Levee Raiss, the City of Chickston has the following comments.

The City of Clarkston is of the opinion there are potential impacts that should be considered in craining the effect of a water level increase. A change in water level could impact the physical hydraulic carrying canacity of the City of Clarkston wastewning outfall facilities and additional silt buildup could affect the diffuser structures. The same holds true for the City of Clarkston storm water collector system.

The City of Clarkston respectfully requests that you consider the potential impact on these tients if you are extrously considering raising the level of the Lower Chante pool.

If you have any question, please don't besitate to call. Thank you for the opportunity to respond to your recommendation.

Very truly yours

Appendix O
Response to Comments

rganization

City of Clarkston, Mayor

Comment 1

The City of Clarkston is of the opinion that there are potential impacts that should be considered in evaluating the effect of a water level increase. A change in water level could impact the physical hydraulic carrying capacity of the City of Clarkston wastewater outfall facilities and additional silt building could affect the diffuser structures. The same holds true for the City of Clarkston storm water collection system.

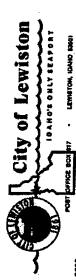
The proposed levee provides for increased pool elevation during extreme flood events, and thus provides conveyance while maintaining a designed level of protection. The normal pool operating elevation would not increase as a result of the proposed levee raise.

During normal operating conditions, the water level would remain at its current elevation, so there would be no increased head and thus no increased infiltration. Infiltration could occur during high-flow (i.e., flood) events, such as the 100-year flood or the standard project flood. Flood events provide a temporary condition in which infiltration could occur, and as such, are not expected to result in substantial amounts of infiltration. No specific evaluations of potential changes in infiltration rates associated with the proposed lever raises were conducted. However, the pump stations behind the levee system are designed for the 100-year storm water event and are anticipated to be adequate to control infiltration associated with flood events. Additional stormwater flow from flood infiltration to the storm water pumping system is anticipated to be minimal.

With the proposed levee raise, there would be no increase in the reservoir pool elevation or fluctuations under normal operating conditions. The pool elevations will be maintained between 733 and 738 feet above mean sea level, as has been done historically. Under extremely high flows, such as near the standard project flood flows, the water surface elevation would be higher during the flood peak. The City of Clarkston's facilities would not be adversely impacted by the proposed lever raise because normal operating pool elevations would not change, and high flow events would be relatively short in duration.

U.S. Army Corps of Engineers Walla Walla District

Final DMMP/EIS July 2002



January 7, 2002

(200) 746-0471

Altn: Dredge Material Management Plan 201 North Third Avenue Walla Walla District, Corps of Engineers Walla Walla, WA 99362-1876 Department of the Army

Dear Lt. Col. Wagenaar:

The City of Lewiston has reviewed the draft Dredged Material Management Plan and Environmental Impact Scalement as well as attended the public meeting on the proposed alternatives and recommended option. We have the following concerns:

- Lewiston Levee by three fret. We are concord to risting the levee system. We believe that raising the levee will cause additional addinentation and over time will require additional dradging for recreational sites. We believe the DAMP/ES should provide additional analysis of navigation, recreation and economic impacts to Lewiston and Cariston of risting the levee before a preferred alternative is identified. Alternative 4, the preferred alternative, calls for rateing a portion of the
- alternative, we would point out that allouid any construction take place, it should be postponed until after 2006 to ensure that the construction is not in conflict with the Lewis-Clark Bicontennial. Levee construction is scheduled to begin after 2005. While we oppose this

Thank you for the opportunity to comment on the DMMP/EIS.

Sincerely,

Derwie- mour

fanice Vassar

Lynn Moss, Parks & Recreation Director Bob Bushfield, Community Development Director File Honorable Mayor and City Council Joel Ristau, Public Works Director City Manager

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ganization

City of Lewiston, City Manager Comment 1

We are opposed to raising the levee system. We believe that raising the levee will cause additional sedimentation and over time will require additional dredging for recreation sites.

Response

The proposed levee raise would provide protection for Lewiston / Clarkston from major flood events as a result of ongoing sedimentation. The proposed levee raise would not affect the current bood elevation or sedimentation rates. Due to ongoing sedimentation, future dredging would be required to maintain sites outside of the Federal navigation channel (such as recreation sites) with or without the proposed levee raise. The levee plan was developed in conjunction with the reduced sediment removal and is expected to provide the desirted conveyance and level of flood protection through the year 2074. The need for levee raises will be re-evaluated after 2074 based on conditions at that time. The Corps will have a on-going dialogue with the ports on the lower Snake River and McNary Reservoirs to address concerns regarding dredged material management, sedimentation, and flow conveyance. This dialogue will include the Local Sediment Management Group.

Organization

City of Lewiston, City Manager

omment 2

We believe the DMMP/EIS should provide additional analysis of navigation, recreation, and economic impacts to Lewiston and Clarkston of raising the levee before a preferred alternative is identified.

Response

The Corps believes its analyses of issues relating to navigation, recreation, and economic impacts (as well as other environmental and socio-economic issues), are thorough and sufficient to use in the selection of a preferred alternative. Regarding navigation, there would be no effects from adopting the preferred alternative, compared to not adopting the alternative. Effects of all alternatives, as well as public input, were evaluated thoroughly during the process of selecting a preferred alternative. There would be no interruption of navigation for dredging or levee raise construction.

Recreational and economic effects were analyzed in Chapters 1.3, and 4, and Appendix C of the DMMP/EIS. Although recreation along the walking paths would be interrupted temporarily, due to the temporary nature of the anticipated impacts, the proposed actions would not significantly disrupt recreation or other nearby recreation facilities in the Lewiston/Clarkston area. The regional economic impacts of the construction activity are expected to be positive, as the proposed construction would result in increased regional jobs and procurements of equipment and materials.

Organization

City of Lewiston, City Manager Comment 3

Should any construction take place it should be postponed until after 2006 to ensure that he construction is not in conflict with the Lewis-Clark Bicentemial.

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District

Kesponse

The Corps' economic analysis of the levee modification indicates that the greatest benefits would be realized if the levee raise were constructed as soon as is practicable. However, the Corps expects to make a final determination about implementing the recommendel levee raise after the results of the 2005 system biological checkpoint have been evaluated. If structural modifications to the lower Snake River dams have been successful in contributing to an improved adult returnate, and the intervening sediment accumulation has continued current trends, the Corps would make a decision to implement the levee raise alternative feature of the recommended alternative. Once the decision to implement the levee raise has been made, the necessary construction finds would be requested through the normal Corps budgeting process. Typically, it takes about two years for funding to be made available for design and construction. The funding request would be submitted in 2006 and construction would most likely start, at the earliest, in the late fall of governments and authorities with respect to the proposed levee raise to ensure local concerns are considered fully.

Final DMMP/EIS July 2002

Last Numer	Theories Constitution	City of Lewiston, PO Box 6.17	States 229:	Total total total total total		e Report on On r copy of Nain Report DRLY:	Though like to thank the corps and its little for institution the presentation in Lawisson last limited on the Charlest Method in the Institution last limited on the Charlest Charlest Method in the Residual Institution of the Charlest Annual Institution in the Charlest Institution	Thanks, Lynn Hoss, Parks and Recreation Director, City of Levelors. 15 It was great to visit with Dave Darkel for a few minutes, hade seen him for warrs.	
First Name:	Phene: 206-746-2313			ĕ	Status Of Order	Entire Report on CD: Paper copy of Hain R	I would like to thank the week on the Lord Dwell County of Lord Dwell County of County	Thanks, Lynn Ha	

City of Lewiston, Parks and Recreation Director

pathway would not commence prior to the Event years. I hope that is the case. There are also a number of area events, expecially running related, like the Seaport River Run, tha occur each year. I trust the Corps will be working with us to time construction to provide minimal impact if recreational and tourist events. I got the impression that construction on the elevated dike and My concerns relate to the timing as it relates to the Lewis Clark Bicentennial and other area Comment 1 possible.

Response

The Corps' economic analysis of the levee modification indicates that the greatest benefits would be realized if the levee raise were constructed as soon as is practicable. However, the Corps expects to make a final determination about implementing the recommended levee raise after the results of the 2005 system biological checkpoint have been evaluated. If structural modifications to the lower Snake River dams have been successful in contributing to an improved adult return rate, and the intervening sediment accumulation has continued current trends, the Corps would governments and authorities with respect to the proposed levee raise to ensure local concerns are make a decision to implement the levee raise alternative feature of the recommended alternative. Once the decision to implement the levee raise has been made, the necessary construction funds would be requested through the normal Corps budgeting process. Typically, it takes about two years for funding to be made available for design and construction. The funding request would be submitted in 2006 and construction would most likely start, at the earliest, in the late fall of 2008. The Corps will coordinate with the City of Lewiston and other local and regional considered fully. U.S. Army Corps of Engineers Walla Walla District

Final DMMP/EIS July 2002

Best Available Copy



1626 6th Avenue N. • Lewiston, ID 83501 (208) 743-831 • Fax (208) 743-4243 E-mail: portirio@lewiston.com

PORT COMMISSIONERS

ADMINISTRATION

Poter K. Wilson Vice Franking Onlo R. Aldredge Forwlay Tanasar Terry R. Kolo

Manager David R. Doeringskol Office Manager Diane N. Hauten

January 4, 2002

Dept. of the Army
Walls Walls District, COE
ATTN: Deedge Meterial Management Plan
201 North Third Ave.
Walls Walls, WA 99362-1876

Dear Lt. Col. Wagenaer:

After extending the Dredge Material Management Plan and Environmental Impact Statement meeting in Levision on December 13, 2001, we have the following comments:

The reference map, "Plate 17," shows the limits of ravigational dredging enting at approximately river mile 1.6 on the Clearwate River. We believe this area was depicted because it was the limit of navigational dredging on the last dredging project. The constressionally authorized against him is arrea mile 2.0 on the Clearwater River (the Memorial Bridge over the Clearwater River).

Because this is a 20-year Drudge Management Plan, we believe that the plan alrould clearly represent the actual limits of arvigational drudging. Currently, there is no need to drudge the asyigational channel east of the area shown on Plate 17. However, 10 years from now we say said this area drudged to extend navigation. We do not want to run into problems down the road because the protege Management Plan did not reflect the authorized limits of navigational dredging.

2. Alternative 4, the preferred alternative, calls for rating a portion of the Lewiston Levee by three feet. We are strongly ognosed in rating the Lewiston leves.

Apstern. We believe that rating the leve would cause additional softmentation and correction require additional declines are found of the correction requires additional declines and responsible to the correction requires additional declines declines are by the COR, but would definitely increase the long-term develope expenditures by the COR, but would definitely increase the long-term develope expenditures by the COR, but would definitely increase the long-term develope expenditures by the Cities and Ports of Lewiston and Caleston. Raising the levee only further cuts Lewiston and from access to the river. Allowing additional sediment to build-up will be detrimental to the community's ability to develop thurse water from facilities. The DMANFRESS abould provides a through analysis of navigation.

recreation, and economic impacts to Lewiston and Clariston of raising the lewer before a preferred alternative is Mentified.

Levve construction is scheduled to start after 2005. While we oppose this sitemative, we would point out that should any construction take place, it should be postponed (providing there are no safety issues) until acts 2006. This will consure that the any construction is not in conflict with the Lewis-Clark Biscontinguis.

Thank you for the opportunity to comment on the DMM/RDS. We would be happy to provide any additional information regarding our comments if required.

Shoerely, Port of Lewiston,

Devid R. Doarla

Port of Lewiston, Manager Comment 1

approximately river mile 1.6 on the Clearwater River. We believe this area was depicted because it was the limit of navigational dredging on the last dredging project. The Congressionally authorized navigation limit is river mile 2.0 on the Clearwater River (the Memorial Bridge over the Clearwater River). Because this is a 20-year Dredge Management Plan, we believe that the The reference map, "Plate 17," shows the limits of navigational dredging ending at plan should clearly represent the actual limits of navigational dredging.

The map (Plate 17) has been revised to show the proposed dredging area extending up to

Clearwater River Mile 2.

Port of Lewiston, Manager

Comment 2

would cause additional sedimentation and over-time require additional dredging for recreational We are strongly opposed to raising the Lewiston levee system. We believe that raising the levee sites and port berthing areas.

Response

levee raise. See response Idaho Department of Environmental Quality comment 6 regarding the need for levee raises in the future. The Corps will coordinate with the ports on the lower Snake sites outside of the Federal navigation channel due to ongoing sedimentation with or without the The proposed levee raise would provide protection for Lewiston / Clarkston from major flood current pool elevation or sedimentation rates. Future dredging would be required to maintain River and McNary Reservoir to address concerns regarding dredged material management, sedimentation, and flow conveyance. This diabgue will include the Local Sediment events as a result of ongoing sedimentation. The proposed levee raise would not affect the Management Group.

Port of Lewiston, Manager

Comment 3

impacts to Lewiston and Clarkston of raising the levee before a preferred alternative is identified. The DMMP/EIS should provide a thorough analysis of navigation, recreation, and economic

The Corps believes its analyses of issues relating to navigation, recreation, and economic impacts adopting the preferred alternative, compared to not adopting the alternative. Effects of all alternatives, as well as public input, were evaluated thoroughly during the process of selecting a (as well as other environmental and socio-economic issues, are thorough and sufficient to use in preferred alternative. There would be no interruption of navigation for dredging or levee raise the selection of a preferred alternative. Regarding navigation, there would be no effects from construction

There would be an on-going need to dredged recreation and port facilities on a periodic basis regardless of the proposed levee raise.

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U.S. Army Corps of Engineers Walla Walla District

other nearby recreation facilities (walking paths, etc.) and the temporary nature of the anticipated impacts would not significantly disrupt recreation in the Lewiston/Clarkston area. The regional Recreational and economic effects were analyzed in sections 1,3, and 4, and Appendix C of the DMMP/EIS. Although recreation along the walking paths would be interrupted temporarily, economic impacts of the construction activity are expected to be positive, as the proposed construction would result in increased regional jobs and procurements of equipment and

Organization

Port of Lewiston, Manager

Comment 4

Should any construction take place, it should be postponed (providing there are no safety issues) until after 2006. This will ensure that the construction is not in conflict with the Lewis-Clark Bicentennial.

Response

See response to City of Lewiston's comment 3 and response to City of Lewiston Parks and Recreation Comment 1.

Final DMMP/EIS

U.S. Army Corps of Engineers

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CONFEDERATED TRIBES

DEPARTMENT of MATURAL PERSONNICES CARNEL PRODUCES PRODUCES PRODUCES

Umatilla Indian Resonation P.O. Borr 658

PENOLETON, OREGON \$7801 Ann coin 503 Phone 276-3429 FAX 278-0540

Jack Sands, Project Manager U.S. Army Copps of Engineers 201 North Third Avenue Walls Walls District

Dear Mr. Sands:

Walla Walla, Washington 99362-1876

Outural Resources Protection Program (CRPP) consumms on the draft Dredged Materials Management Plan and Environmental Impact Statement (DMMD/EES). We would like to begin by reflecting you to two previous letters automitted by the CRPP regarding this subject, one dated November 13, 2000 to Sandy Statements and one dated December 18, 2000 to Mary Keith. This letter constitutes the Confederated Tribes of the Umatilla Indian Reservation (CTUIR)

We approclate that the Corpa decided to prepare an Environmental Impact Statement rather than an Environmental Assessment for this project. However, we still have none concerns in the document. The DMMP/EIS notes that infine have been invited to participate in the Local Sediment Management Group (LSMO), however it refers to the tribes as merely interested

Additionally, other local estities with an interest in management of the resources involved in developing and disponal activities (Indian tribes, ports, counties, municipalities, environmental product, and transportation and industrial interests) would be acted to participate on an assended basis. DEIS § 1.8

The tribes are not simply interested parties, we have tights, secured by treaty to resources impacted by Corps operations. We would like it ciprified that Native American Tribes are past stateholders in this project. The Corps has a trust responsibility toward Tribes and precious caused simply group dem in with pregraps else. It is important that the EIS be specifie as to how they tarted to meet this responsibility. Currently the only reference to the trust responsibility is,

Tribes would like their interests and rights considered within the context of certain tribes cultural values and perspectives not universally represented in Federal decision-making. The

interest must be examined both from the perspective of Federal legal responsibilities as well as those points raised by tribal government representatives. Frosestom of treaty rights and resources and cultural resources are of interest to both tribes and the Corps. DEIS § 3.14.3

This paragraph indicates that the trust responsibility is not through consultation. This is not the case. The trust responsibility requires the Corps to electly and deliberately consider the inspact of Corps actions on breaty resolves and attained by produced resolvers or file fairly, whether they are that and wildlife resolvers are calbinal resources. When there is a conflict between stailingly authorities and treaty rights, the Corps is required to protect the treaty resources because the responsibility, in cassand, required to protect the treaty resources because the responsibility, in cassand, required the Corps to protect those treaty reserved resources, not to ignore them is tight of other legal reponsibilities. The DEIS has a great deal of material on the glidance is implementing the trust responsibilities. The root substantive reference to 8

However, one of its objectives is to "consider necessary cultural resource protection." We feel listal that it indepropriate. Considering technical involving the location and neither a feedbank resource involves incoming the location and neither of cultural technicals. This information is sensitive and should not be absent with non-cultural resource sergious. Fee ES-17 of the dark Protection and the DNIAP/EIS explains the Local Sadiment Meangement Group's (LSMG) purpose well,

3

The development, implementation, and maniforing of project scrious would be conducted in conformance with the NHPA [National Historic Preservation Act) and the National Environmental Policy Act. Five to fairliamton and implementation of any plan, the Corps would complete the weighted cultural resource consultation. The Corps would continue to consult with appropriate State and Tribal Historic Praservation Officer(s) as well as other affected consulting perties throughout the tife of the 28-year plan.

We would like clarification on this matter. Prior to each individual drudging event, will the tops supply in consultation with the CTUIR regarding cultural resources? What form will this consultation take? Will the CLYP have the opportunity to comment on each debling event? If this is not the case, then the CRYP objects to the proposed drudging-disposal areas indicated on platts 2 through 6 and 8 through 11 because of their vicinity to known cultural resource sites. 3

As for comments specific to cultural resources, we were disappointed to learn that the Corpa does not plan to include a Cultural Resource Appendix to the EIS. Rather, a few paragraphs are all that will be dedicated to the reconcer. We believe feat the appendix Mary Kelik prepared had a great deal of information that needs to be included momentaris in the EIS. She discussed the consultation process, gave an overview of the use of the propert area over turn, discussed bow the alternatives outh affect enthral resource size. She also different stands to the reservoir as well as management is some of the reservoir as well as management is some, as a process to address effects to resources. There must be a calvural resource a speemity addressing thats issues because all of them are completely ignored in the DMADPEIS. Additionally, the

8

Confederated Tribes of the Umatilla Indian Reservation

P.O. Box 839 * 72239 Confedented Way Pendebox, OR 67801 (541) 278- 9195 * (349) 908-9027 * (341)-278-3085 (F)

FX

mother Dresged Menial Marithmen Jell Van Pett, CROP 10/1 8 - 504527-7832

O Florent Respublic

Orient Park

O Piense Comment

Il for Bester

We look forward to sociag our comments addressed in the final DMM/DEE. If you have any questions, please feel free to contact me or Catherine Dictions, archaeologist, at (541) 276-3629.

Respectfully,

ce: Carl Meetide, Salmon Racowery Policy Analyst Audie Huber, Intergovermoental Affairs Manager Michael Farrow, Department of Natural Resources Director

0-54

On page ES-16 of the DMAQT-EIS, it states, "Directions for all four abenatives would be linated to the removal of accumulated switteness and would not affect original inverted or shown the contract and within the mesernal." It this true for both, armored, for column resources constant within the mesernal." It this true for both, armore that mesernal is the property of the column tentor and the mesers are the removal won't effect cultural resources in the presentation of the mediants category page it state; "Inowe mouse got cultural resources size would be arocited to the mediants category installing the phenoment of deedged mesernal." We think we need specified to what cannot? "installing the phenoment of deedged mesernal." We think we need specified adverse page of suntinging given practicable. 9 28

obsides we identified in our comments on this separatin (the December 18, 2000 letter information above) have not been addressed.

જ

Finally, to reienzate some of what we have said in our previous letters, the CRPP would like the Corps to certifiee its policy on inselventent discoveries of saccetual remains and to develop a contingency plant it as archeological rate is distrated during develor; As the Corps well know, inselventest discoveries are as vay of life along the Columbia and State river. A copringency plan is critical to consistent implementation of the NIPA as well as the Archaeological Resources Protection Act and the Native American Graves Protection and Repartitation Act.

2



DEPARTMENT of NATURAL PESOURCES Cultural Resources Prosection Program

Umatilla Indian Reservation

P.O. Box 638

Phone (541) 276-3629 FAX (541) 276-1968 FAX (541) 276-0540 PENDLETON, OREGON 97801

November 13, 2000

Environmental Compliance Section Walla Walla District Corps of Engineers

Walls Walls, Washington 99362-1876 ATTN: Sandy Simmons 201 North Third Avenue

Subject. Public Service Notice Number CENWW-PM-PD-E po-02

Dear Mr. Simmons.

Thank you very much for providing the Confederated Tubes of the Umacija Indian Reservation (CTUIR)
Department of Natural Resources Cultural Resources Protection Program (CRPP) with an opportunity to comment on the Environmental Assessment (EA) for the Interim Lower State, Clearwater, and Mid-Columbia River Dredging project. We have a number of concerns.

Please note that the Public Notice and the CRPP's trapt to the notice constitute cultural resource consultation with the CTUR on a technical level. It dres not replace government to stowerming the consultation necessary before dredging deposal activities can proceed. =

1855. Additionally, these comments are limited to cultural resources. The CTUIR will submit comments regarding other concerns separately. We have so concerns with Alternative A. No Action. Our concerns with Abernative B are that in-tiream diposal of dredge maserials may harm cultural resources (this will be discussed in depth below). Alternative C involves disposal of dredge materials in the Joso Habital Our concerns are specific only to the lands ceded by the CTUIR to the US government in the Treaty of

7

Management Unit. This alternative is not accordable because there are a number of cultural resource area in this disposal area. The CRDF's concerns regarding Alternative D. In-water Disposal or Other. Beneficial Use, are similar to those regarding Alternative B. Alternative D is the Copys' preferred alternative and is discussed at length. = See 12

Keith's September 18, 2000 "Calaural Resource Inventory Report FY 2000-2001 Interim Dredging."
This report indicates deedging within the CTUR's coded land will be just below the Lower Manumental The EA does not include the Hollebetic dredging in the 2000-2001 dredging plans discussed on Because of confusion about exactly which stress were to be dredged in 2000, to 2001, we examined Mary fages 9-11, but at close list it in Table 2, Sites to be Dredged, on page 5. The CTUIR is consermed about

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Public Service Metics Number CENT/NR-PM-PD-# 00-40

these sites have been towned including the final teach in the National Reguller or Austoric Places, placing See 13

dredge spoils upon them would be an adverse street.

who is on the Regional Dredging Team. Why is work to be coordinated with this group and subject to an EA or an environmental impact steament? The future dredging provisions include preparation of a cultural resources evaluation for each dredging event, but the EA does not specify who will conduct this evaluation and that it will be done in consultation with affected tables. Without such consultation this The CRPP is concerned with the EA's system for essectaing the impacts of future dredging. We wonder evaluation will not satisfy the National Historic Preservation Act. 5

The Cultural Resources sub-section of Affected Environment and Environmental Consequences makes several stratements and draws conclusions with which the CRPP does not agree. On page 48 the EA says, "Burial of archaeological sites for their protection is a viable abtentive to scientific excavation." Presumably, the intended meaning is that bural is a mitgation alternative comparable to excavation. The [sic] that the design and construction of a protective resource covering needs to be favorable to the preservation of substantace cultural deposits. The objective is not to stop the deterioration rate of cultural materials, but rather to not contribute further to their loss. In order to determine if in water disposal actions would adversely affect a cultural property, the nature of cultural deposits and project affects must EA goes on to state, "However, the complex reaction between site soils and cultural materials require be assessed."

resulted in large cemetaries being urested over time on many of the islands in the rivers. However, it also indicate that a person should be buried no mon than 18 to 24 inches below the surface of the ground. The First, the CTUIR does not agree that burial of sites "for their protection" is automatically an acceptable way to mingate adverse effects. In fact, tradeomal Native American burial customs in the Middle Columbia and Lower Stake River regions involved mismile people where they passed over. This means that burials can be encountered anywhere within the tribes' traditional areas. Traditional beliefs CTUIR is very much opposed to any action that would add to the depth of the burials. 2

Second, taken together, all of these statements in the EA indicate that placing dredge spoils on sites can be an adverse effect. In the early 1980st the Corps of Engineers (Corps) worked with other agareties in proprie Lenthau et al. 's National Reservoir fandation Study which discussed the impacts reservoirs have on cultural resources. Lenthau et al. socket that the common windom was that burying a site should "enhance rather that detract from long-term site preservation" (p. 102). They went on, however, to say that the benefit may be "more imaginary than real... The stresses involved in such burial may, over the long term, have adverse effects on the resource base." Sec 16

Third, it is our understanding that it is exactly the Corps' responsibility to "stop the deterioration rate of cultural materials" when their project is causing the adverse effect.

to be dredged and spoils focation to areas free of cultural resources (based on available data). The CTUIR would like to point out that the available data counist primarily of pre-reservoir studies done in the 1940s and 1940s. These studies focused on investigating large and/or spectacular sites. Many smaller prehistoric sites sind almost all historic sites were not recorded. Subsequent surveys larve located many subtrain resources not identified in the early surveys. Therefore, the CRPP believes it is imppropriate to assume that all of the dredge disposal sites and the areas to be dredged are free of cultural resources based fact, the EA makes a "no historic properties affected" determination based in part on the location of areas Fourth, the EA makes no provincen for assessing the "nature of cultural deposits and project effects." In

CAYUSE, UMATILLA AND WALLA WALLA TRIBES

TREATY JUNE 9, 1855

+ CAYUSE, UMATILLA AND WALLA WALLA TRIBES TREATY JUNE 9, 1855

Public Service Nasica Hamber CEN WWW.PLA-FD-E 98-03 17/13/00

lagged out along the beach, suggesting that part of the site may be immosted. This site is very near the deciging to be done for the Hollebeke Habint Management Unit. It is restonable to believe that the dredging could adversely effect the site by dredging through it or provoking sub-surface erosion as the prehistoric artifact scatter with fire-cracked rock, cobble tools, a net weight, and flakes. Artifacts were solely on the pre-reservoir studies. As an example, site 10-33-04/01 was recorded in 1999. It is a newly dug trench achieves an appropriate angle of repose.

assurances that, indeed, there are no custural resource artes in the areas to be utilized. If the Corps selected upland disposal, selected areas could be cleared. This would be done first by above-ground cultural inundated areas. The Corps may want to consider an underwater archaeology program or a drawdown to properly inventory and assets the cultural resources in the areas to be impacted by dradging artivities. The CTUIR does not accept the idea that the fact that inundated cultural resources are difficult to access makes them inteligible for inclusion in the National Register. in summary, our greatest concern with the in-stream disposal of the dredged materials is that we have no resource inventories and then by the excavation of a number of thovel test probes to determine whether below-ground-cultural resources are present. These kinds of determinations are also possible for

In order to adequately assess this project's effects to cultural resources, we believe an environmental impact scatement is necessary. As written, the EA is difficult to follow because it is unclear what is happening in 2000 and 2001 and what is happening in 2001 and 2001 and school and accessing between 2001 and 2001. on the plates as disposal areas and some of the areas to be dredged will impact cultural resources sites. Because the 2001 to 2003 dredge events are only partially covered under this EA, it is not clear to what extent they should be commented upon. We are uncomfortable with the idea that these comments will be our only apportunity for technical cultural resource consultation for three years' worth of dredging.

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properties affected. We believe that this EA and its previsions for faunt dividing preclude understanding the cumulative effects of this multi-year project. We believe that both the 2000 to 20003 designg itself and the proposed in stream disposal of dredge materials have the potential to adversely affect both known The CRPP strongly disagrees with the Finding of No Significant Impact and the finding of no historic and unknown cultural resources.

Thank you very much for your time and kind attention. If you have any questions, please call me or Jeff Van Pelt, Program Manager, at (541) 276-3629.

Sincerely,

tetring E. Dusen

Tribal Historic Preservation Officer O Meafred E. W. Jachnig, Ph.D. Principal Investigator and

ced/MEWJ

cc. Jeff Van Pelt, CRPP Manager
Carl-Merkle, Salmon Recovery Policy Analyst
Audie Huber, Intergovernmental Affairs Manager
Michael Farrow, Department of Natural Resources Director

CONFEDERATED TRIBES

DEPARTMENT of NATURAL RESOURCES

Claura Patentes Program

Umatilla Indian Reservation

OND (541) 276-3629 FAX (541) 276-1986 FAX (541) 276-0540 PENDLETON, OREGON 97801 P.O. Box 638

December 18, 2000

Department of the Army Walls Walls District, Corps of Engineers Walls Walls, Washington 99362-1876 101 North Third Avenue Mary Keith

Day May

Thenk you for the experitualty to comment on the draft cultural resources appendix for the draft environmental impact statement (ELS) for the Dredge Meanrial Meangement Plan for the McNary and Lower Smale River Reservoirs. We applyighte for the delay in selemitting these comments.

eraire draft ELIS. We do not have items trifured to in this document to the continuor without having the naise and the naise fact of the document including other appendices and the naise fact of the dark ELS. We are maskle to place the cultural resources portion of the proposed the influentium isto a larger consteat. Without maps alwaying specifically where the deredights is proposed and the area of potential effect, we know to know or envirain the number of sites identified for each proposed designing area. Finally, we that that our comments on this document could practice to from commenting on the dark ELIS as a whole. We will have more thorough comments perhaps covering other issues when we receive the craits draft ELIS. I would like to begin by noting that we found it difficult to comment on this document without having the

- See 13 2
- Our preferred alternative is not one of the choices. We would like one of the alternatives to be no dradging at all. Our second choice is Allernative 3, upland disposal of dradged materials. If is only frough the alternative that we can determine the eligibility of time that will be imparted by the disposal of dradge materials. In the discussion of how to address cultural resources conserts for this themative, you need to mention hadional cultural properties—how will they be identified and if there are any, bow will the adverse effects to them be antigated?
- We feel that in stream disposal is unacceptable because of the potential salvers effects to largers and unknown cultural resources. Burials can be encountered saywhere within the tribes traditional stress. Traditional beliefs indeatiblishs a person should be buried no more than 18 to 24 inches below the surface of the ground. The Confederated Tribes of the Unstills Indian Resorvation (CTUR) is very much opposed to any action that would add to the depth of the burials. See 12
- We have a mancher of concerns with this document as it now stands. What is the Corps' policy on insdiveriest discoveries of succettral romains? Under the Native American Graves Protection and Repairmation Act the Corps must come activities for \$70 days to notify Native American tubes. Proof to Sec 10

TREATY JUNE 9, 1855 + CAYUSE, UMATILLA AND WALLA WALLA TRIBES

UMATILLA AND WALLA WALLA TRIBES

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TREATY JUNE 9, 1855

any dwelging activities, we want an approment inadversent discoveries will be handled. Also desurbed during dredging? The CTUR may dredging activities.

The second Table I, which begins on page 12, late a number of dredging area that have no need dredging history. We believe that these areas must be treated of foreinly than those which have dredged before, this difference is reflected in the except of 33 CFR 336 provided in Attachment are no nech difference reflected in the text.

5

We are curious bow the Corps pleas to determine which insudated uites are eligible/pertentially eligible for inclusion in the National Register of Historic Pascal. Then, how will you midgate access effects to insudated eligible sites? Perhaps these subjects will be included in the cultural resources plea mentioned on page 32. Will that plan be part of the final dark ETS? If not, when will it be available for comman? 70

We feel that tables similar to Table 7 need to be developed the all of the other reservoirs. How specifically will the Corps sasess the potential for comments in drodge materials to alter outhurebearing origi. We would like to see specific clashons for many of the chains made in the sections 3.2.1, 3.2.2, 3.3.3, and 3.2.4. Will be drawings of the irregularly thereof areas to be drodged be included in the death of the EliS? They would be helpful. 71

On page 23 in a discussion of Mathewson et al. you make the statement, "The objective is not to stop the determent and cultural meterials, but makes to not contribute further to their loss." Since this subments is not true of the Corps' repossibility, which is in the to tap the deterioration rate of cultural resources if they are being affected by a Corps andertaking, is seems you are speaking of Mathewson et al. is objective. We suggest that you omit this sentence. 77

It is important to note that the CTUR sees a difference between stabilizing sites that are actively being adversely effected by an action such as eronion and placing fill over a sup that as far as seyons known is fairly static.

Finally, we advise you to carefully prooffeed the appendix. There are a number of grammatical errors, appearably missing pins of text, and aurobering problems in both the text and the tables. We are missing peopless 41 and 42. There are conflicts between done and names cised in the text and the citations in the bibliography. E

We appliated the appointint's emphasis on tribal contaction. We appreciate the Cotyst efforts to begin that process early. We hope these comments are helpful. We recommon that in the finant the Corps be more appecific about when it needs comments and why documents are being delivered one section at a time. If you have any questiout, please feel free to contact me or Catherine Dickson at (541) 276-3629.

JVP/cod

oc: Michael Furow, Dopartmans of Natural Resources Director Audie Huber, Intergovernmental Affairs Manager Jack D. Sonde, Environmental Study Manager

TREATY JUNE 9, 1855

Confederated Tribes of the Umatilla Indian Reservation, Cultural Resources Program Manager Comment 1

therefore cannot simply group them in with everyone else. It is important that the EIS be specific impacted by Corps operations. We would like it clarified that Native American Tribes are not The Tribes are not simply interested parties, we have rights, secured by treaty to resources mere stakeholders in this project. The Corps has a trus responsibility toward Tribes and as to how they intend to meet this responsibility.

The Corps' relationship to the Tribes is discussed in Sections 3.14 and 6.4. The effects of the alternatives on Native American Tribes and communities are discussed in Section 4.15.

Confederated Tribes of the Umatilla Indian Reservation, Cultural Resources Program Manager Comment 2

Corps actions on treaty reserved and statutorily protected resources of the tribe, whether they This paragraph indicated that the trust responsibility is met through consultation. This is not the case. The trust responsibility requires the Corps to clearlyand deliberately consider the impact are fish and wildlife resources or cultural resources.

The paragraph referenced in the comment has been revised. The Corps has considered the potential impact to the fish, wildlife, and cultural resources in your reference for each of the alternatives evaluated.

Confederated Tribes of the Umatilla Indian Reservation, Cultural Resources Program Manager

resources involves knowing the location and nature of cultural resource sites. This information is The DMMP/EIS explains the LSMG's purpose well. However, one of its objectives is to "consider necessary cultural resource proection." We feel that this is inappropriate. Considering cultural sensitive and should not be shared with non-cultural resource personnel.

the Tribes will assist in developing protocols for what information can be shared and with whom on an as-needed basis. Likewise, the nature and extent of cultural resource site information that is The sensitivity of both cultural resource site information and location is integrated into the Corps' protected. Because the Tribes in the region are participants in the LSMG, the Corps is assuming procedures. The location of cultural resource sites will not be given to the general public. The appropriate precautions will be taken to ensure sensitive cultural resources information is released will be limited to only the minimum necessary and appropriate for each specific

Organization

Confederated Tribes of the Umatilla Indian Reservation, Cultural Resources Program Manager Comment 4

We would like clarification on this matter (Page ES-17 of the draft DMMP). Prior to each

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individual dredging event, will the Corps engage in consultation with the CTUIR regarding

cultural resources?

other interested parties concerning it proposed dredging and cultural resources issues. The Corps undertaking has been initiated. To meet its compliance requirements under Section 106 of the National Historic Preservation Act, the Corps will continue to coordinate with the CTUIR and Government-to-government consultation between the Corps and the CTUIR on the DMMP will consult with the CTUIR and other tribes for each dredging and disposal activity.

Confederated Tribes of the Urnatilla Indian Reservation, Cultural Resources Program Manager Comment 5

be included somowhere in the EIS. There must be a culturd resources appendix addressing these We believe that the appendix Mary Keith prepared had a great deal of information that needs to issues because all of them are completely ignored in he DMMP/EIS.

cultural resources information already contained in the main document, the decision was made to not to repeat it in an appendix. The Corps believes that the cultural resources information contained in the main document meets NEPA requirements and is a thorough evaluation. Further The cultural resources appendix the CTUIR received was a draft. Upon reviewing the level of information can be found in the Lower Snake River Juvenile Salmon Feasibility Study and its Appendix Q (incorporated by reference).

Organization

Confederated Tribes of the Umatilla Indian Reservation, Cultural Resources Program Manager Comment 6

Additionally, the matter we identified in our comments on this appendix (the December 18, 2000 letter referred to above) have not been addressed.

The November 13, 2000 and the December 18, 2000 comments submitted by the CTUIR are included here for response.

Confederated Tribes of the Umatilla Indian Reservation, Cultural Resources Program Manager Comment 7

On page ES-16 of the DMMP/EIS, it states, "Dredging actions for all four alternatives would be ramps, HMUs and similarly situde areas? Are there any guarantees that removal won't affect shoreline material, or cultural resources contained within that material." Is this true for boat limited to the removal of accumulated sediments and would not affect original riverbed or cultural resources in the reservoirs?

Response

See response for Nez Perce Tribal Executive Council's comment 34.

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U.S. Army Corps of Engineer:

government-to-government consultations. See Section 6.4.3 of the DMMP/EIS for detailed

discussion of this process.

Organization

Confederated Tribes of the Umatilla Indian Reservation, Cultural Resources Program Manager

We think we need specifics on what exactly "maximum extent practicable" means.

Comment 8

procedures and quality controls directed at preventing dredged material from being placed directly on known inundated historic properties and that there will be minimal impacts associated Based on the available cultural resources site location information, the Corps will set forth with sediment drift.

Organization

Confederated Tribes of the Unatilla Indian Reservation, Cultural Resources Program Manager Comment 9

We are disappointed that unidentifted submerged cultural resources are not addressed at all. Response The Corps is not aware of any technology or methods presently available that would allow it to effectively address the matter of unidentified submerged cultural resources.

Organization

Confederated Tribes of the Umatilla Indian Reservation, Cultural Resources Program Manager Comment 10

remains and to develop a contingency plan if on archeological site is disturbed during dredging The CRPP would like the Corps to outline its policy on inadvertent discoveries of ancestral

The Corps' designated points of contact will be immediately notified of the discovery. The Corps be made to establish the cultural identity of the remains (Native American or not). If the remains will notify appropriate Indian Tribes, law enforcement, and coroner's offices. Every effort will Native American Graves Protection and Repatriation Act. The same process will be used if an immediate area will stop and will not resume until the matter has been satisfactorily resolved. are determined to be Native American, the Corps shall comply with the terms set forth in the If human remains are inadvertently discovered during dredging operations, all work in the archaeological site is inadvertently impacted.

it should also be noted that the dredging at the confluence has been done to a greater extent in years past and that other sites will have minimal dredging occurring.

Confederated Tribes of the Umatilla Indian Reservation, Cultural Resources Program Manager Comment 11

Please note that the Public Notice and he CRPP's reply to the notice constitute cultural resource consultation with the CTUIR on a technical level It does not replace government-to-government consultation necessary before dredging deposal activities can proceed

Response

See response to comment 4 above. The Corps will fulfill its responsibilities with respect to

Final DMMP/EIS July 2002

Walla Walla District U.S. Army Corps of Engineers

Confederated Tribes of the Umatilla Indian Reservation, Cultural Resources Program Manager

Comment 12

Our concerns with alternative B, alternative D, Other Beneficial Us&, or in-stream disposal of dredge material are that they may harm cultural resources

Response

See response to comment 8 above.

Confederated Tribes of the Umatilla Indian Reservation, Cultural Resources Program Manager

Alternative Cinvolves disposal of dredge materials in the JosoHabitat Management Unit. This alternative is not acceptable because there are a number of cultural resource sites in this Comment 13

Prior to undertaking disposal of dredged materials in any upland area known to contain historic properties, cultural resources assessments will be done on the properties to determine their National Register eligibility and if they should be given additional consideration (e.g. protection, avoidance, etc.)

Organization

Confederated Tribes of the Umatilla Indian Reservation, Cultural Resources Program Manager Comment 14

The CTUIR is concerned about scultural resources in the project area].

See response to comment 13 above.

Organization

Confederated Tribes of the Umatilla Indian Reservation, Cultural Resources Program Manager Comment 15

not specify who will conduct this evaluation and that it will be done in consultation with affected Tribes. Without such consultation this evaluation will not satisfy the National Historic include preparation of a cultural resources evaluation for each dredging event, but the EA does wonder who is on the Regional Dredging Team. Why is work to be coordinated with this group The CRPP is concerned with the EA's system for assessing the impacts of fuure dredging. We not subject to an EA or an environmental impact statement? The future dredging provisions

preservation Act.

The membership of the Regional Dredging Team (now the Local Sediment Management Group) is listed in Section 1.8 of the DMMP/EIS. The DMMP/EIS is the NER document that addresses Response

Final DMMP/EIS

July 2002

parties to identify potential impacts of the dredging and disposal activities on cultural properties. As stated in Section 4.5, the Corps would consult with the SHPOs, Tribes, and other interested This consultation will follow the National Historic Preservation Act Section 106 process.

Organization

Confederated Tribes of the Umatilla Indian Reservation, Cultural Resources Program Manager Comment 16

First, the CTUIR does not agree that burial of sites 'for their protection" is automatically an acceptable way to mitigate adverse effects.

The Corps agrees that burial of cultural sites is not automatically an acceptable way to mitigate adverse effects. Studies done on site burial have shown both the advantages and disadvantages that can result from covering sites. The Corps will consider this option on a case-by-case basis and consult with the Tribes and other interested parties before making any decision on what action will be taken.

Confederated Tribes of the Umatilla Indian Reservation, Cultural Resources Program Manager Comment 17

In order to adequately assess this project's effects to cultural resources, we believe an

environmental impact statement is neæssary.

material disposal for the next 20 years. The effects of these activities on cultural resources have been considered. Each time the Corps proposes to dredge, it will evaluate the effects of the dredging and disposal activity on cultural resources. The Tribe will be given the opportunity to The interim dredging was not implemented. This DMMP/EIS addresses dredging and dredged review and comment on each dredging activity.

Organization

Confederated Tribes of the Umatilla Indian Reservation, Cultural Resources Program Manager

Comment 18

We would like one of the alternatives to be no dredging at all.

A "no dredging" alternative would not meet the project purpose and need. None of the sediment reduction strategies were totally successful in stopping sediment from entering the river and depositing it where the material would interfere with navigation, recreation, and irrigation intakes. Some level of dredging would be required to maintain the navigation channel. Response

Regardless of the alternative selected, the Corps would avoid known cultural properties in the dredging and disposal areas.

Also see response to Save our Wild Salmon's comment 6.

Final DMMP/EIS July 2002

Walla Walla District U.S. Army Corps of Engineers

Organization

Confederated Tribes of the Umatilla Indian Reservation, Cultural Resources Program Manager Comment 19

The second Table I, which begins on page 12, lists a numberof dredging areas that have no recorded dredging history. We believe that these areas must be reated differently that those which have been dredged before, this difference is reflected in the excerpt of 33 CFR 336 provided in Attachment A. We see no such difference reflected in the text

See response to the Nez Perce Tribal Executive Council comment 34.

Confederated Tribes of the Umatilla Indian Reservation, Cultural Resources Program Manager Comment 20

We are curious how the Corps plans to determine which inundated sites are eligible/potentially eligible for inclusion in the National Register of Historic Places. Then, how will you mitigate adverse effects to inundated eligible sites?

with regard to determining National Register eligibility. As established under Section 106 of the National Historic Preservation Act, the Corps will coordinate/consult with appropriate State Historic Preservation Offices, Indian Tribes, the Advisory Council and other interested parties to The Corps will work from existing information available on inundated cultural resources sites consider possible mitigation actions for Register-eligible sites.

Confederated Tribes of the Umatilla Indian Reservation, Cultural Resources Program Manager Comment 21

culaire-bearing soil? We would like to see specific citations for many of the claims made in the sections 3.2.1, 3.2.2,3.3.3, and 3.2.4. Will the drawings of the irregularly shaped areas to be We feel that tables similar to Table 7 need to be developed for all of the other reservoirs. How specifically will the Corps assess the potential for contaminants in dredge materials to alter dredged be included in the draft of the EIS? They would be helpful.

anticipate that proposed dredging or dredged material management would result in impacts to The Draft DMMP/EIS presented and the Final DMMP/EIS presents maps showing proposed dredging and in-water habitat creation/beneficial use areas within the lower Snake River and constituents of dredged material to after culture-bearing soil. However, given the existing information on sediment quality (see Section 3.9 of the DMMP/EIS), the Corps does not McNary Reservoirs. The Corps did not specifically analyze the potential for chemical culture-bearing soil.

Final DMMP/EIS July 2002

Organization

Confederated Tribes of the Umatilla Indian Reservation, Cultural Resources Program Manager

stop the deterioration rate of cultural materials, but rather to not contribute further to their loss."

Since this statement is not true of the Corps' responsibility, which is in fact to stop the deterioration rate of cultural resources if they are being adversely affected by a Corps undertaking, it seems you are top of Mathewson et al.'s objective. We suggest that you omit this sentence. It is important to note that the CTUIR sees a difference between stabilizing sites that are actively being adversely affected by an action such as erosion and placing fill over a site. On page 23 in a discussion of Mathewson et al. you make the statement, 'The objective is not to that as far as anyone knows is fairly static. Comment 22

Response

for the 1999 Interim Dredging Draft Environmental Assessment. Because this information is not in the DMMPEIS document, it will not be addressed. This comment is specific to information contained only in the draft cultural resources appendix

Organization Confederated Tribes of the Umatilla Indian Reservation, Cultural Resources Program Manager

Comment 23

Finally we advise you to carefully proofreat the appendix. There are a number of grammatical errors, apparently missing tits of text, and numbering problems in both the text and the tables. We are missing pages 41 and 42. There are conflicts between dates and names cited in the text and the citations in the bibliography.

Response

Your comment is noted.

U.S. Army Corps of Engineers Walla Walla District

Final DMMP/EIS July 2002



Established by the Treaty of June 9, 1855

Jacousty 18, 2002

Department of Army
Walls Walls District, Corps of Engineers
ATTV: Drodged Material Management Plan
201 North 3" Avenue
Walls Walls, WA 99362-1876

Walla Walls District Draft Dredged Material Mangement Plan and E13

Dear Mr. Sands:

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The Yakama Nation (YN) submits these comments regarding the draft Dredged Material Management Plan and Environmental largest Statement (DEIS) released by your office. These comments are the final version of comments arbuilted to your office January 7. We incorporate the comments submitted by the Columbistic processor by reference.

The YN has a variety of concerns with the DEIS as released by your office. The greatest concern we have revolves around in-water disposal. It appears that there is inadequate information and malyale conducted to reach the conclusion that in-water disposal will benefit fish and other biological organisms. There is a strong possibility that the preferred alternative will cause sections harm to listed species and trust resources.

While we support the Corps' intent to benefit the natural environment, the preferred alternative, which would create shallow water babins, is not supported by sound science. While the referenced study may have shown a correlation between existing shallow water habitat and sulmound use, it appears that the Corps is overreaching in utilizing this as a basis for in-water disposal in the DEIS.

The Comp should also movide additional analysis of drodesd material for contamination irrespective of the disposal option selected. There is evidence of sediment contamination created by the Hanford Project and elevated levels of mercury above Grand Coulee Dam.

Dredging and redeposition of contaminated sediment will impact trust resources and ESA listed species including fish and terrestrial species.

The DEIS acknowledges that an alternative to dredging exists in commilling unland erosion. While the DEIS states this fact, there is no alternative including this as an

Post Office Box 151, Fort Road, Toppensh, WA 90948 (509) 865-5121

Oxion. The Council on Environmental Quality has explicitly stated in the Forty Most Ashad Questions that agencies should include reasonable alternatives even though such alternatives may be ortained the cristing authority of the action agency.

3 cont

The names) of trailing sestiment sources it a reasonable alternative to include given the lotterm mature of the dredge program contemplated in the DEIS. It is entirely conceivable that this alternative type approach could be implemented, but only if the action agency takes a first stop towards considering it.

We remind you that the U.S. Army Corp of Engineers has a frust responsibility to the Yelsama Nation. Irresponsible to the Corps may interpret its day howards the Xv. any damper to brust resources through such activities as deedging, damage that implicity imposts the membership of the YN, is consent to this host placed upon the Federal government and its appents.

Piense field free to contact Mr. Paul Word, Environmental Manager, YN Fisheries Resource Management Program at (509) \$65 6262 with any questions regarding these comments.

Sinoerely,

Hitty January Vandansenic New Triat Wildligh TFW Department of Natural Resources Values Nation

Organization

Confederated Tribes and Bands of the Yakama Indian Nation, Department of Natural Resources Comment 1

The Yakuma Nation has a variety of concerns with the DEIS as releazed by your office. The greatest concern we have revolves around in-water disposal. It appears that there is inadequate information and analysis conducted to reach the conclusion that in-water disposal will benefit fish and other biological organisms. There is a strong possibility that the preferred alternative will cause serious harm to listed species and trust resources. While we support the Corps intent to benefit the natural environment, the preferred alternative, which would create shallow water habbials is not supported by sound science. While the referenced study may have shown a correlation between existing shallow water that the referenced study may have shown a correlation between existing shallow water beliate and submoid use, it appears that the Corps is overreaching in utilizing this as a basis for in-water disposal in the DEIS.

Response

Numerous scientists from federal, state, university and tribal agencies set up the study design in 1987. These agencies include the U.S. Army Corps of Engineers, U.S. Fish and Wildlife Service, National Marine Fisheries Service, ESSA, Battelle-PNNL, Washington Department of Fisheries, Oregon Department of Fisheries, Oregon Department of Fisheries, Oregon Department of Fisheries, Inviersity of Idaho, University of Washington, Oregon State University, and the Yakima (now Yakama) Indian Nation. The researcher involved with many of the studies was David Bennett, Ph.D., a tenured professor at the University of Idaho. With a multiple year study design, a lead researcher independent from the federal government, and a study design from the regions leading experts, the Corps believes that the science is sound: (Web et al 1987).

Organization

Confederated Tribes and Bands of the Yakama Indian Nation, Department of Natural Resources Comment 2

The Corps should also provide additional analysis of dreaged material for contamination irrespective of the disposal option selected. There is evidence of sediment contamination created by the Hanford Protoierd and elevated levels of mercury above Grand Catlee Dam. Dreaging and redeposition of contaminated sediments will impact trust resources and ESA Isted species including fish and terrestrial species.

Response

See response to the Columbia River Inter-Tribal Fish Commission's Comment 24.

Organization

Confederated Tribes and Bands of the Yakama Indian Nation, Department of Natural Resources

The DEIS acknowledges that an alternative to dredging exists in controlling upland erosion. While the DEIS states this fact, there is no alternative including this as an option. The Council on Environmental Quality has explicitly stated in the Forty Most Asked Questions that agencies should include reasonable alternatives even though such alternatives may be outside the existing authority of the action agency. The control of upland sediment sources is a reasonable alternative to include given the long-term nature of the dredge program contemplated in the DEIS. It is entirely conceivable that this alternative tope approach could be implemented, but only if the action agency takes a first step towards considering it.

Response

Non-dredging and reduced dredging alternatives were considered in Sections 2.2.1-2.2.3 of the

Final DMMP/EIS

U.S. Army Corps of Engineers Walla Walla District

DMMP/EIS. The text in these sections has been revised to include an expanded discussion of why these measures would not adequately address the sedimentation problem in the five reservoirs. Reducing sediment generated by land use practices was considered, but would not eliminate the need for dredging. Although the Corps has no authority to change land use practices on non-Corps property, the Corps will use the Local Sediment Management Group to pursue possible modifications to land use practices. Sediment reduction alone will not solve the sedimentation problem.

Also See response to Comment 2.

Organization

Confederated Tribes and Bands of the Yakama Indian Nation, Department of Natural Resources Comment 4

We remind you that the USACE has a trust responsibility to the Yakama Nation.

Response

Comment noted

Final DMMP/EIS



COLUMBIA RIVER INTER-TRIBAL FISH COMMISSION 729 NS Organ, Subs 200, Parland, Overn 7723 Trippose 50 231 607 Fix 50 255 4225

Lt. Colonel Richard Wagenaer Walls Walls District 201 North Third Avenue Compa of Engineers

Walls Walls, WA 99362

Environmental Protection Agency Region 10 Souttle, Washington 9810! Regional Administrator 1200 Sixth Aversus I. John Imi

Final Comments on the Walla Walla District, Corps of Engineers and Environmental Pretection Agency's Draft Dredge Mastrial Management Plen and Environmental Impact Statement (DMMP/ELS) Environmental Americant Section Interior Lower States, Clearwater and Mist-Columbia Rivers Dredging ÿ

Don Lt. Colonel Wegenan and Mr land:

complese DEIS comments. The following comments reperences our preliminary DEIS comments authorities to the Corps on January 7, 2002. Until the NEPA process is finalized an authoritie "no-action" alternative, no dredging, must, by default, be implemented. We remind the Corps and EPA, that, as departments of the government of the United States, they have a runs responsibility to provest and united why resources of the Columbia River Treaty inhes. In these comments, we also include by reference forward it, 2002 DEIS comments by the Nex. The Columbia River Inter-Tribul Fish Commission (CRITFC), 1 on behalf of its member tibes, approclaise the opportunity to review and provide final commuts to the Walls Walls.
District Draft Drodge Material Management Plan and Environmental impact Statement (DES).
We appreciate the extension of time until Jamusty 18, 2002 offered to CRITIC by the Corps to Perce Tribe.

General Comments

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poverment to government constitutions between the Corps and RPA and CRITIC's member tibes regarding proposed DRIS alternatives and polential actions. Consultation to the bitternal decidate making process between soversigns that leads up to and includes a decision. BPA and making a decision, and the Corps ames engage our member tibes in formal consultation at the policy level before making a decision about a preferred absentive in the final EIS (REIS) and the Record of Decision (ROD). This is considered with RPA's July 16, 2001 Regions 10 Third Consultation Presservett and the Coops and four public policy of consultation with Native American tibes. We concur with the January 18, 2002 comments of the Nez Peres Tithe regarding

Past Lower Strade River Deadging Comments

CRUTPC submitted formed comments opposing Corps' drodging in the Lower States River on June 3, 1992 (Strong 1992a; River 5 1992). Atmost other daings, CRUTPC recommended that the Corps, in cooperation with the USFWS and the Colombia Beats Fift and Wildlife Authority (CBFWA), survey the site and evaluate impacts to known full chinock approximate areas. The Carps protended with this drotging even though ESA-listed States River fall chinock airtites were found in the drotging spoils.

In 1997, the Copys, whipe an environmental measurement, again proceeded with structure 500,000 cubics parts of sediment in the Lower Enalts River in spite of CRITPC's objections. In this case, the USE'WS joined CRITPC's is recommending that!) is written disposal of developing upolled disposals at the River in the Lower Sander dums were under consideration of threshing. 2) included disposals at the Part of Wilnes and Mydraulia developing should saver been considered included of cleanabell disposals at the Part of Wilnes and Mydraulia developing should saver been considered recommended that the Corps pursue as arrivonmental impact stamment on the proposed developing and its water disposal (Carball 1997). Forevers, the Corps pursue as arrivonmental impact stamment on the proposed developing and in the Corps implement the no-action alternative (Songs proceeded with the proposed scrion based upon a PONSI on an included 1) an indequate comparison of the costs of abunatives, 2) indequate assessment of the specific impacts of sediment disposal under the various abunatives, and 3) inadequate examination of Tibel outlined its

On November 11, 2000 CRITEC commented as the Cops* Corps* Bavironmental Assessment and draft Finding of No Significant Impact (DFONSI) for the Interim Lower Seales, Clearwainer and Mid-Columbia Rivers Dredging (EA). We strongly snoowaped the Corps to complete an environmental impact sharement prior to making a final decision on an abamative. We raised a series of issues regarding impacts to federal environmental standards, ESA listed salams stocks and treaty fisheries that were previously raised in other comments.

DELS Alternatives

We appraciate the either the Corps and EPA have shown in constructing a draft environmental impact adamsers on potential dreighing actions that could impact resources for many decades to come. With respect to the DEIS, CRITEC finds the Corps and EPA have raised

[•] CATITIC was ensured in 1977 by the Not Purry Titles, the Confidenced Titles of the Unstills Indian Reservation, the Collections of the Vision Behavior Engineers of Chapter and the Yelman Notion. The portexting to CATITIC is compared of the fish and wildlife count how of the manufaction. The portexting of those streams and fisher also provide sporting, where and application is continued for machinesis and fishers and fisher also provide such that we had applicately habited for machinesis that are not citled impendence to the takes. CATITIC provides included and legal support to the miles to corry out those goals.

Best Available Copy

a similar series of facts regarding the impacts of treaty and cultural resources as in the 1992, 1997 and 2000 Lower Studio deciging convincemental assessment. These include the following:

All four DELS alternatives involve active dredging of the Lower fasts River and McNay Pool. We are usuare as to what the scoperg for this DELS enterlock however, other alternatives should have been considered for analysis and aboud the included in a Prink IEE. One of these are actions to finite sectioned input into the Lower Scales River such as land conservation theritods to reduce sections in finite sections to finite sections.

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Another alternative that should be included in a final HIS (FEIS) is the breaching of the four Lower Smale dums. The NMCS 2040 FCRFS Section 7 Biological Opinion provides performance analogical communities that the beautiful or for communities that the Lower Saahe dums are breached. Given the bistorical low survival of Saaha River juvenile attents and retained and the strength of the cours and stealband in 2001, it is Elizaby that survival performance standards will not be used and the dums may be breached. Further, CRITFC views that alternatives 2.3 and 4 would involve introlymate and estivities that could, from a cost prespective, projective dum breaching alternatives to the Attern. Thus, this abstractive should be fully analyzed in the FEIS.

Section 2.2.2 of the DEES contemplates reservely drawdown to accommodate floods, and offers an enalysis claiming that under an operation of and 733, the conflictness of the Soaks and Cestwater Rivers would cause Lower Cranite pool elevations in a heavy flood event as its about and 134. But the DEES does not offer a flood event analysis if the pool were drawn down below said 734 flouting the event. The temporary derawlown of Lower Cranite pool to and 7310 (spillows creat) in 1922 demonstrated that this operation can be accomplished without insparting include operation and even achit salance passage since a fore level flattway outlet was available of the dam. Thus, we believe the Corps and EPA should include an analysis of the dam. Thus, we believe the Corps and EPA should include an analysis and elevantary of temporary drawing down of Lower Gratite pool to mal 710 in the FEES. We believe that this operation under flood flows would also serve to more large appropriate in the confinence man through the pool and decreasement, thus, facilitating insvigation in the long tim.

The DEIS lacks are authentic, 'no action' alternative, where no dreiging would occur and other actions would lake place to fourier navigation is meliterized. Vessels with lighter loads could still navigate the Lower Stake River without melitaining the savigation channel at a specific depth. We understand that the Corps is authorized by Congress to provide navigation but we don't believe this means maintaining an explicit 14 foot depth.

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Socioeconomic and Columni Resource Impacts

With respect to socioeconomic impacts from DEIS alternatives, Section 3.14.3 of the DEIS mentions the Meyer Resources (1999) mealysis which describes the transfer of river weaks from tribal communities from tribal communities from Corps actions sorts a building and operating the Lower State of some section of the section of the section of the Lower State of the section of the State State of the State State of the State of the State of the State State of the State State of the State

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using methods and data described in Mayer Resources (1999). This is a significant failing in the DERS because the nondesconcentic impacts of the four alternatives are not defined in relationship to concently supports to these communities. This deficiency must be received by including each of methods to the FILEs and sandything the submittee, "The colors," alternative against the standards and methods the theory Resources (1999) and CREA M.HIII (1999). The DEIS falls to note that the proposed desdains will contains to impact heavy and collumn resources. Loss of tribal events from the invertees to non-tribal communities compared to non-tribal communities.

With respect to tithal cultural resortion, the DEES leads impacts from the four alternatives to archeological resources. The health and abundance of anadomnous fifth, instituting salmon, steelbest, Facific lampays and strapens are also critical tribal orthunal resources and laws been since these inneremental. The FEIS should contain the Industry between these fish propulations, and that fish andre the fifth should contain the Bulletings between these fish reinit tribal cultural resources. The PEIS must examine the itsus of Efficients in Series comments retire that culture and extend and alternatives soully med.

Specific Comments

- Section 2.2.4 describes that strethenical dradging and some degree of hydraulio dradging would be stillind. This action will make high layers of tarbidity and radiatibusion of barios continually into the water column.
- The DELB preferred abstractives 1.2 and 4 proposes in-water disposed, becames
 14 spland disposed is too costly. Radistribution of known toodos into the water
 column from drodged sediments is not adoptately addressed in the DEIS.
- The DEIX proposes discipling in probable full chicock agencing areas in the sultraces of Lower Genries and Lower Monmental dean. Designing of these areas disturbed and killed listed full chinock alerine in 1992.
- 16 The DEES inconverty states that there will be little risk to standscarous fast chains darking the activity. Life hateny and darking the activity. Life hateny markes from WINFW indicates that a high proportion of juvenile fall chincok overwinds in Lower States Kives reservoirs and will be succeptible to checking majorics.
- 17 * The DEIS doclares that the cost and the time required for upland disposal is too grees; therefore, in-river deposal, despite impacts, is apprepriate. The DEIS meas condicts caviroimental impacts as well as cost and time featibility.
- 18 The proposed alternative has not been placed in consext with the NACES 2000 FORES Biological Opision. The Opision cells for eignificant improvements to opision main seen healter she for all of the seen the seen healter are juvenile and eaths rature and stackhed survival. The proposed alternative is contain to these objectives that the federal government believes it critical to recovery of ESA-jisted and treaty reserved.

resources. Further, the NMCS Opinion calls for consideration of beautiling the four lower States Dams if portemance steadards are not mat. Given servival of lated Stakes River inventile steadand at only 2% in 2001, it is likely that performance steadards at 2005 any not be mat and breaching must be considered.

The proposed alternative has not been considered from an ecopystem or normative silver perspective (Williams et al. 1996). Dredging will continue to degrade efficial habites monestary to expend life history and trophic diversity.

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Alternative Actions. It appears that an authorin, "No Action" alternative is feasible, and that barge operators would simply have to lighten that loads to prevent grounding. The DRIS fails to describe the soon subsidies to the Port and myrigation industry under the four druging alternatives. These costs will be borne by the American authorist. The PDIS should stady to the cost of other immediation methods (to rail or truck) that if subsidies as the four druging alternatives, may be less expensive then the druging alternatives.

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Developing with its water disposal abstractive. There appears to be no finalish way that all each small can be supergrand for discrete in-water disposal. The Corys is proposing to monitor the movement of the sediments allost it is placed, with no prior hydraulic generatory, other evaluation, or suscenator of how floos and and will be rediscributed by river flows and savigation warves.

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Drodging impacts invertebrate production. During initial dradging, an estimated 75% of beathic oxpanions may be removed from the site (Alice and Bardy 1940). While recolorization can occur, it is neutily by oxportunists populations less which is not trophic chain, and original species diversity is "......scious indicated that recolorization of investionment in the necessary is "......scious indicated that recolorization of investionment had not occurred over a isn year period (Alice and Hardy 1940). The DRIES does not accounted these impacts thoroughly.

• The DEES claims that deposition of developing upoil can crass critical salmon habitat. Bennet et al. (1991) asset that two years after develop disposal, there was a four to five-field lorger loved of eligedates blomms at develop disposal there was Higher code Oligedates propulsations are single-develop disposal there was Higher code Oligedates propulsations are single-develop disposal time. Provide a better autifient notes for feeding salmonids that developing, which tend to colouize disturbed four habitat (DEFWS 2000). This loss of diventity and lowered levels of securedary producibity indicates a loss of critical salmonid habitat that will be exceeded with higher for undisturbed river channel sites much that where the diging spoils were placed. The cody test also were seathend were noted that stephens divides were much higher for undisturbed river channel sites from their was a cloudge disposal site. Section 2.2.4.1 of the DEES states that as moch as 10% of subyearling that historick cause from displaying spoils were pained. The suby task in which of subyearling that historick cause from display demonity in the river. The DEES states not describe the place is disposal to the PEES.

See 22

2.3 • Principal wester column impacts from designing include increased tarbidity, increased corpora decused and releases of contaminants including specific backs, for exilicity and minimized [Allen and Harry 1980]. Turbidity and resuscence of columnia, including contaminants, typically come at the deciging size by (Allen and Harry 1980).

See 17 • Upland disposal. This alternative office the less impact to the aqueste bion; and standard manuality, yet the Corps square the absencive beard upon cost and time to implement.

See 23 • Water quality. Lioyd (1997), Newcombe and MacDouald (1991) and Alben and Hardy (1990) sport that high levels of unfaility that out be caused by dredging, will come impact to adminishe such as stress, to avaidance and direct mortality.

• Our review of the tonic sediment energies indicates that organic and incognic conditions to the constituted in samples, which could be impossed and estimated into the wear column. We believe that the turnin samples are impossed and estimated into the conditions about incide agreed from designing activity. Indiced, DRIS Societies 19.1.1.7 indees that recent integrated from designing and not to the residence are not sevalable where the designing also to the indiced and a sevalable in proposed containing 1972 data. It is likely that move texts have accumulated in activities since 1972. It is critical that there are see he semples considered in existing a since 1972. It is critical that there are see he semples considered.

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• The flame of the Potlach Mill in-dive disposal of toxics into the Cheswetzer River and Lower Granks pool and these toxics bring consistently entrained in the river from theights is a significant losse not addressed in the DESS, This is a key cumulative affects typic data must be addressed in the DESS. This is a key.

The impact of a staw of totic and organic and incoming communicate being sentential fitted the water column by the proposed initial dradging and redupes into the revisionment places saltered initial dradging and redupes to the three the three three follows saltered populations at risk. Eving (1999) securated in tropic levels to levels and the factor three those in the automatic and electrical transformation, traits column. The impacts of these coulematists can be over, causing direct salteridity. However, they can also be substituted impacting the shilly of reproductive capacity, less of adsociate saltering incoming the shilly of disease them to an order to the community and evidence of reproductive capacity, less of adsociate and evidencially and lowered resistance to described the property and the print of the print.

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See 16

work window (December 15-Merrie 1). For example, Surve (1998 in USETW) work window (December 15-Merrie 1). For example, Surve (1998 in USETW) 2000), in scale sealysts ending, under that the observation of the payments of the University and Lower Chements Elvers were from juveniles that over the Cambridge and Lower Chements Elvers were from juveniles that over under the Window of fall Lower Enable mervedus is based upon PIT-TAG detections of fall chemok that originate above Lower Cheme find on all the sent that the Cower Enable mervedus is based upon PIT-TAG detections of fall chemok that originate above Lower Cheme find on all the state of the sent that the form the damps (Copys 1990) in December, and although official counts are not initiated by the Copys in Pathany, sentlemed, including facily, or magnet strongly the damp of the sent that the formation of the sent the magnetic than the payment of WINEW 1996-2000). These facilities of the payment of WINEW 1996-2000). These facilities in the PRIX.

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se proposent develoing seest. Surveys should be completed, in counstration is the tribes and state and follows fisheries agencies before develoing in Richa address. The results of these paintys about he exhibited in the FRIR. Essential Fight Stables. The DEES false is provide details on official incident marveys with impact to spenning steekbood and full chinode, and twaing area there was an adversary of the control of the

Conclusion

dam breaching alternative would require an investment that accompanies we sook instructs a that could prejudious a flavor dam breaching decision, than, this alternative should be included for the PEIR. The DEIR failed to accessive drive down of Lower Chanin pool below and 733 as an alternative for Flood providious, and then form of Lower Chanin pool below and 733 as an alternative for flood providious, and has failed to consider the tangents of proposed alternatives upon tribal socioecomics and culture. acts on the DEIS. In our CRITIC appreciates the opportunity to provide final com-final assessment, we believe that the DEIS has failed to consider, alternative which CRITIC strongly endoses. Curvet DEIS atts

There are a number of toxic laws and their impacts on each proposed dredging sizes not are these two concerns are fully addressed in the NBAPS 2000 PCRPS Biological Or

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presument commitmices with one member

nthest of the foregoing issues, we indices that substantial time with Corps complete the FELM. Until that time and easili a ROD is debing actions with the taken. Mostly you know questions regarding at \$503 731-1219.

Merce

Alben, K.O. and J.W. Handy. 1980. Impacts of seripational designing on Eth and Wildlife. a Brenture seriew. Offices of Biological Services. Unlend States Fish and Wildlife Service. Weskington, D.C.

Arbooth, M.R. and six ecenthors. 1996. Increased micropublish of jovenile chinost salmon from a combanitiosed estimay to Phirto segnificaress. Transactions of the American Fabrics Society. 127:360-374. Bennett, D.M., J.A., Chandler and G. Chandler. 1991. Lower Granies Reservoir-le water deposal test. To Wells Wells Déseist Cops of Engineen. By Department of Fish and Wildliss Reservoes. University of Salto, Moscow, Salato.

CH 2 M Hill. 1999. Honne efficie sanbué of the Multi-Spaties Parametek Abenatives. Prepared for the Northwest Power Pleaning Cottacil. Periond. Oragon. Corps. 1996. Amond Fish Pussage Report. Prepared by the Pertinol and Wells Walls Districts.

Ewing, R.D., 1999. Distributing returns: welfrom decline and preficides. Oregon Periods Education Network. Lioné, D.S. 1987. Turbidity as a water quality standard for minoraid inclinate in Alastra. North American Fournal of Pitternies Management. 7:34-45.

Newcombe, C.P. and D.D. MacDonald, 1991. Effects of suspended sediments on square econymems. North American Journal of Fisheries Management, 11:72-12.

Strong, T. 1992s. Auss 3, 1992 comments to Lt. Calconi R.D. Volts on Walls Wells District Envisonmental Assessment and Supplements Biological Assessment for additional designing of burgaftowload approach claimed to the Permanent Assessment Fish Facility at Lower Measurement Lock and Does. Columbia River Inser-Tribal Fish Commission. Facilised, Cregon.

Strong, T. 1992b. August 6, 1992 constraint to Lt. Colonel R.D. Volte on Walls Walls District PONSI for the Environmental Assessment and Supplemental Biological Assessment for additional dategory of a burga-branchet approach channel to the Permanent Investie Falls Facility at Lower Monumental Lock and Dam. Columbia River Inner-Trittel Fish Commission. Pertund,

Strong, T. 1997. October 30, 1997 comments to Lt. Colonel D.R. Cartis & Walls Walls Walls District on Environmental Ameternates for Proposed Northguism Desking on the Lower Stades and Clearwater River. Columbia River Inter-Tible Fluir Commission. Pertined, Oragon.

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Columbia River Inter-Tribal Fish Commission

Comment 1

The following comments supersede our preliminary DEIS comments submitted to the Corps on January 7, 2002. Until the NEPA process is finalized an authentic 'ho-action" alternative, nodredging, must, by default, be implemented.

Response

The Corps does not plan to dredge under normal circumstances until the Record of Decision for the DMMP/EIS has been signed. Should an energency situation arise, the Corps could perform limited dredging prior to or concurrent with NEPA compliance.

Organization

Columbia River Inter-Tribal Fish Commission

Comment 2

We remind the Corps and EPA, that, as department of the government of the United States, they have a trust responsibility to protect and uphold treaty resources of the Columbia River Treaty

Response

Your comment is noted.

rganization

Columbia River Inter-Tribal Fish Commission

Comment 3

We concur with the January 18, 2002 comments of the Nez Perce Tribe regarding government-to-government consultations between the Corps and EPA and CRITFC's member tribes regarding proposed DEIS alternatives and potential actions. Consultation is the bilateral decision making process between sovereigns that leads up to and included a decision. EPA and the Corps must engage our member tribes in formal consultation at the policy level before making a decision about a preferred alternative in the final EIS (FEIS) and the Record of Decision (ROD). This is consistent with EPA's July 16, 2018 Region 10 Tribal Consultation Framework and the Corps nationwide policy of consultation with Native American tribes.

Response

The Corps is continuing with Government-to-Government consultation with the Tribes and intends to complete the consultation prior to signing the Record of Decision.

Columbia River Inter-Tribal Fish Commission

Comment 4

All four DESS alternatives involve active dredging of the Lower Snake River and McNary Pool. We are unsure as to what the scoping for this DEIS entailed, however, other alternatives should have been considered for analysis and should be included in a Final EIS.

Response

All alternatives identified during the scoping process were evaluated. See Section 6.1 of the DMMP/EIS for a description of the scoping and public involvement process, including concerns offered and issues raised through the scoping process.

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U.S. Army Corps of Engineers Walla Walla District

Organization

Columbia River Inter-Tribal Fish Commission

Comment 5

One of these (additional alternatives that should be analyzed) are actions to limit sediment input into the Lower Snake River such as land conservation methods to reduce sediment influxes into the river.

Doenomen

Reducing sediment input from the Snake River watershed was considered. However, it would not preclude the need to dredge periodically. The Corps plans work through the Local Sediment Management Group to encourage land use managers to adopt practices that would reduce sediment input.

Organization

Columbia River Inter-Tribal Fish Commission

Comment 6

Another alternative that should be included in a final EIS (FEIS) is the breaching of the four Lower Shake dams. The NMFS 2000 Section 7 Biological Opinion provides performance Standards and check in periods with the ultimate possibility of recommending that the Lower Stander and check the percent. Since dams are breached. Given the historical low survivals rate of Shake River juvenile salmon and steellhead in 2001, it is likely that performance standrats will not be met and the dams may be breached. Further, CRIFC views that alternatives 2, 3, and 4 would involve irretrievable commitment of federal funds to structures and alternatives that could, from a cost perspective, prejudice dam breaching in the future. Thus, this alternative should be fully analyzed in the FRIS.

Response

The relationship between the Lower Snake River Juvenile Salmon Migration Feasibility Study (LSRJSMFS) and this DMMP is detailed in Section 1.6 of the DMMP/EIS. Breaching the four lower Snake River dams would not meet the project purpose and need of maintaining Congressionally authorized navigation on the lower Snake River, therefore that alternative was not included in this DMMP/EIS. The LSRJSMFS did evaluate breaching and its findings are incorporated by reference. Selection of any of the four viable alternatives presented in the DMMP/EIS would not prejudice possible dam breaching in the future. The LSRJSMFS can be found on the Corps' website: www.naww.usace.army.mil/181/.

Organization

Columbia River Inter-Tribal Fish Commission

Comment 7

Thus we believe the Corps and EPA should include an analysis and alternative of temporarily drawing down of Lower Granite Pool to ms! 710 in the FEIS. We believe that this operation under flood flows would also serve to move large amounts of sediment in the confluence area through the pool and downstream, thus, facilitating navigation in the long run.

Response

Drawing down the Lower Granite Pool to 710 msl has been discussed and analyzed by the Corps and NMFS. The NMFS 2000 Biological Opinion on the Federal Columbia River Power System

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U.S. Army Corps of Engineers Walla Walla District Appendix O
Response to Comments

Once adult salmon begin to return, the pools at three of the four dams are refilled to meet the fish discusses minimum operating pool (MOP). The Reasonable and Prudent Alternatives (RPA) call velocity through these four dams and thus decrease the travel time of migrating juvenile salmon. adder gate depth criteria for adult salmon passage. The pool at Lower Granite Dam is kept at for operation of all four lower Snake River dams at MOP from April 3 until adult fall chinook salmon begin to enter the Snake River (usually in early September). This is to increase water MOP levels, however, until November 15, after natural cooling has taken place. In particular, while the Corps may operate the dam reservoirs of the four lower Snake River dams was an express purpose of Congress when the dams were authorized. Operating the dams below Moreover, operation of the dams below MOP, at the wrong time of year, has substantial adverse contains a system of locks that allows for boat traffic up and down the lower Snake River. This into conflict with other statutory uses that the dams serve. For example, each of the four dams between full pool and MOP, the Corps may not operate the dams below MOP without coming MOP would prevent the largest barges for which the dams were designed from passing. impacts upon salmon migration.

Also, see response to Washington Department of Fish and Wildlife's comment 2.

Organization

Columbia River Inter-Tribal Fish Commission

Comment 8

The DEIS lacks an authentic, "no action" alternative, where no dredging would occur and other actions would take place to ensure navigation is maintained. Fessels with lighter loads could still navigate the lower Snake River without maintaining the navigation channel at a specific

Response

The Corps is using the interpretation of "no action" as "no change" from the current management The Corps also evaluated non-dredging methods to address the sedimentation problem, but none "NEPA's Forty Most Asked Questions". See Response to Save our Wild Salmon's comment 6. direction. This interpretation is described in the Council on Environmental Quality publication of them were totally effective is addressing the problem. See also response Save our Wild Salmon's comment 29 regarding the feasibility of light-loading barges in lieu of dredging.

Organization

Columbia River Inter-Tribal Fish Commission

Comment 9

We understand that the Corps is authorized by Congress to provide myigation but we don't believe this means maintaining an explicit 14 foot depth.

Response

Your comment is noted.

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U.S. Army Corps of Engineers

Organization

Columbia River Inter-Tribal Fish Commission Comment 10

using methods and data deacribed in Meyer Resources (1999). This is a significant failing in the DEIS because the socioeconomic impacts of the four alternatives are not defined in relationship continuing and cumulative impacts of the four alternatives in the DEIS on tribal communities Appendix C, Economic Aralysis in the DEIS fails to describe, and much less analyze, the to economic impacts to tribal communities.

Response

terms of: 1) tribal ceremonial, subsistence, and commercial harvests of salmon and steelhead; and regard to beneficial effects to salmon, estimated time of removal of salmon from the Endangered Species List, and other related issues. The Meyer Resources report can be found on the Walla determine the cumulative impacts of the alternatives to tribal communities are different from Mr. Meyer's methods, the DMMP/EIS adequately considered and analyzed the impacts (see Sections With regard to the Meyer Resources (1999) report it assesses impacts to tribal circumstances in analysis of salmon recovery and harvest levels presented in the Tribal Circumstances report are 2) tribal access to flooded lands valuable to tribes. The report also discusses tribal views with based on preliminary numbers, as noted in the Lower Snake River Juvenile Salmon Migration Feasibility Report/Environmental Impact Statement, Section 5.8-1. The LSR evaluations and analysis is incorporated by reference. Although the analytical methods used in this FEIS to Walla District website linked to the LSR information (www.mww.usacc.army.mil/lsr). The 4.14 and 4.15)

Columbia River Inter-Tribal Fish Commission

Comment 11

steelhead, Pacific lamprey and sturgeon are also critical tribal cultural resources and have been With respect to tribal cultural resources, the DEIS limits impacts from the four alernatives to since time immemorial. The FEIS should comain the linkages between these fish populations, archaeological resources. The health and abundance of anadromous fish, including salmon and their fate under the four alternatives and others presented in these comments with tribal cultural resources.

American communities both as a food source and as a spiritual and cultural resource. However, based on the analysis of the environmental impacts of the DMMP alternatives and consultations with resource agencies, significant adverse effects on aquatic resources, including salmon and The Corps acknowledges the importance of the Columbia/Snake River fishery to Native steelhead, are not anticipated to result from the proposed action.

Organization

Columbia River Inter-Tribal Fish Commission

Comment 12

The FEIS must examine the issue of Environmental Justice with respect to all alternatives analyzed.

Response

The draft DMMP/DEIS concluded that none of the alternatives considered in detail would cause a disproportionately high and adverse effect on low-income or minority populations in the area.

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fishing or down river fishing. The four alternatives considered in detail, including the no action Furthermore, no alternative considered in detail would cause greater adverse impacts on local alternative, would have indirect, minor, short-term effects on aquatic species. Two of the four alternatives, including the preferred alternative, would provide potential beneficial effects to aquatic resources through the implementation of beneficial uses of dredged material, such as creation of woody riparian habitat and/or shallow water fish habitat.

most of the impacts that would be likely to occur, the Corps concluded in the Draft DMMP/EIS Given the fact that no substantial adverse impacts are anticipated, and the dispersed nature of demographic group in the project area. The discussion of environmental justice analysis is presented in greater detail in Section 4.6 of the Final DMMP/EIS. that impacts would not be likely to be high, adverse, nor fall disproportionately on any

The DMMP/EIS alternatives were considered in detail to determine their specific impacts, the alternatives, and the one recommended, would not disproportionately adversely affect lowincome, minority populations, sport fishing activities, or commercial fishing activities.

Columbia River Inter-Tribal Fish Commission

Comment 13

Section 2.2.4 describes that mechanical dreaging and some degree of hydraulic dreaging would be utilized. This action will cause high levels of turbidity and redistribution of toxics continually into the water column.

constituents from sediments into water. Site-specific sampling data and monitoring plans will be implementation of the DMMP, the dredged material evaluation framework will guide evaluation reviewed by appropriate water quality regulatory agencies prior to dredging as part of the Clean of the potential water quality impacts for dredging and dredged material management activities. A sampling analysis plan and monitoring plan will be developed for each individual dredging project. Prior to dredging, sediments to be dredged will be sampled and analyzed for grain size monitoring plan, which will be implemented to minimize impacts to downstream water quality, evaluated when planning for future dredging projects within in the 20-year period. Monitoring Increases in turbidity due to dredging are expected to be boalized to the immediate area of the dredging and disposal activities, and be limited to the duration of the dredging project. During distribution and selected chemical constituents. Results will be used to develop a site-specific Water Act 401 certification process. Information gathered during each dredging activity will Monitoring will include turbidity, ammonia, temperature, and pH, along with other chemical conducted by the Corps during previous dredging and disposal activities has indicated that constituents if sediment sampling results indicate potential for partitioning of chemical turbidity levels do not exceed state requirements.

Organization

Columbia River Inter-Tribal Fish Commission

Comment 14

Redistribution of known toxics into the water column from dredged sediments is not adequately addressed in the DEIS.

Response

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U.S. Army Corps of Engineer:

See response to comment 26 below.

Columbia River Inter-Tribal Fish Commission

Comment 15

The DEIS proposes dredging in probable fall chinook spawning area in the tailraces of Lower Grante and Lower Monumental dams. Dredging of these areas disturbed and killed listed fall chinook alevins in 1992.

Powerhouse, however, not on the navigation lock side of the river. All dredging in the tailrace of Lower Monumental Dam covered under the DMMP will occur in the navigation channel. It is believed that the velocities on the navigation lock side of the river in this location are insufficient for attracting fish to spawn in these locations. Multiple years of survey occurred after 1992 and no redds were ever found again downstream from Lower Monumental Dam (Dauble et al 1998). The NMFS Biological Opinion (2000) indicates, in section VII.C.1.3., the Corps will not dredge Eggs and alevins were discovered while dredging in front of the Juvenile Fish Facility and in the tailraces of the dam until redd surveys have been completed (Appendix F),

Columbia River Inter-Tribal Fish Commission

Comment 16

because they will not be presentduring the activity. Life history analyses from WDFW indicates that a high proportion of juvenile fall chinook overwinter in lower Snake River reservoirs and The DEIS incorrectly states that there will be little risk to anadronous fish during dredging will be susceptible to dredging impacts.

Response

during the summer as subyearlings. (Tiffan et al. 2001). According to Williams and Bjorm 1998, overwintered and migrated seaward as yearlings in spring was small and did not effect survival Fall chinook typically have an ocean type rearing life history and typically outmigrate seaward "A small proportion of hatchery and natural subyearling fall chinook salmon residualized and estimates." This indicates that a small proportion of fall chinook may over winter every year. Despite this, the draft DMMP/EIS states in Appendix F that proposed activities are likely to adversely affect fall chinook salmon by dredging. NMFS' Biological Opinion is included in migrated early in spring 1997; however, as with fish released in 1995, the number that Appendix F.

Organization

Columbia River Inter-Tribal Fish Commission

Comment 17

river disposal, despite impacts is appropriate. The DEIS must consider environmental impacts as The DEIS declares that the cost and time required for upland disposal is too great, therefore, inwell as cost and time feasibility.

Response

The DMMP/EIS does consider environmental impacts of the upland disposal alternative (see Section 4; Table 4-1 presents a summary of environmental impacts of each alternative). The

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U.S. Army Corps of Engineers Walla Walla District

The DEIS fails to describe the costs subsidies to the Ports and navigation industry under the four dredging alternatives. The FEIS should analyze the cost of other transportation methods (i.e. rail

or truck) that, if subsidzed as the four dredging alternatives, may be less expensive than the

dredging alternatives.

Comment 20

Federal environmental standards. In their Biological Opinion (2000), the NMFS has indicated benefit as in-river disposal to create juvenile fall chinook rearing habitat or creation of woody riparian habitat along the shoreline. It is the Corps' policy to dispose of dredged material in a has determined the upland disposal alternative would not have as much environmental manner that is the least costly, is consistent with sound engineering practice, and that meets support for the in-water disposal and riparian habitat creation as proposed.

Organization

Columbia River Inter-Tribal Fish Commission

Comment 18

The proposed alternative has not been placed in context with the NMFS 2000 FCRPS Biological

to create significant mainstem habitat improvements. The Biological Opinion Action 155, which range and the diversity of historic habitat conditions as much as possible, and monitoring and evaluating the results. For this project, the Corps has met the baseline data gathering and is now Woody Riparian Habitat Program through the Lower Snake River Compensation Plan, is meant habitat, is consistent with the NMFS Biological Opinion (2000). This, in combination with the uncertainties by collecting baseline data, improving mainstem reaches in ways that mimic the On the contrary, creating habitat in the mainstem river, where there is currently none or poor states " BPA, working with the Corps will take immediate steps to begin to address these attempting to mimic the habitat that was in place prior to the hydrosystem completion.

Organization

Columbia River Inter-Tribal Fish Commission

Comment 19

perspective (Williams et al. 1996). Dredging will continue to degrade critical habitat necessary The proposed alternative has not been considered from an ecosystem or normative river to expand life history and trophic diversity.

the Corps is attempting to create habitat diversity within the reservoir in an attempt to mimic what sandy material, but because it is typically in the thalweg (main flow) of the channel, it is less used Dredging the mainstem Snake River in the confluence area and at Schultz Bar is meant to remove study backwater areas targeted for dredging and determine the spatial and temporal distributions of rearing salmonids, as well as identify key habitat attributes that explain the distributions." The NMFS Biological Opinion (Appendix F) addresses this issue and states "the [Corps] would by rearing and migrating fish. Restoring the navigation channel at some locations, from 12 feet In proposing to alter habitat in the reservoir from little to more shallow water shoreline habitat, deep to up to 16 feet deep in a 250-foot wide channel, is not expected to change the hydraulics intakes, etc., which are primarily composed of silt, is not expected to impact salmonid habitat. was there before the hydrosystem. Dredging backwater areas such as boat basins, irrigation sufficiently to alter fish use of the area in the future.

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Section 7a of the Department of Transportation (DOT) Act of 1966 (Public Law 89-670) requires nearly all of these rates, some more than others. The methodology used in this DMMP/DEIS and the use of prevailing rates in determining the feasibility of Federal inland navigation projects. In transportation including barge, rail and truck. These comparisons depend on published rates or method to determine a navigation project's feasibility involves the comparison of the cost of negotiated rates prevailing at the time of the study. Federal funding or subsidy is reflected in that prescribed for Congressional authorization of inland waterway navigation improvements competitive similar rates are the best available approximation of long-run marginal costs. transporting the goods and commodities to and from the study area by various modes of the case of existing waterways such as the Columbia-Snake River waterway, prevailing does not use rates under Federal funding parity.

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Organization

Columbia River Inter-Tribal Fish Commission

Comment 21

or assurance of how fines and sand will be redistributed by the river flows and navigation waves. movement of the sediment after it is placed, with no prior hydraulic geometry, other evaluation, Dredging with in-water disposal alternative. There appears to be no feasible way that silt and sand can be segregated for discrete in-water disposal. The Corps is proposing to monitor the

determine which dredging areas are mostly silt and which areas are mostly sand and larger-sized Particle size analysis performed as part of the pre-dredging sediment sampling helps the Corps For the initial dredge projects, applicable components of the Lower Columbia Sediment Byaluation Framework will be used to determine if materials to be dredged are suitable for incharacteristics per Appendix J (Dredged Material Evaluation Framework) of the DMMP/EIS. water disposal. Only materials not exceeding 30% silt will be allowed for in-water disposal. sediments. Prior to any dredging, samples will be collected and analyzed for physical

sediments out of the water column. Monttoring during and after dredging will verify the stability proposed locations for in-water disposal are areas where sediments tend to settle out of the water caused by passing traffic on the river may cause some localized movement of materials, but the Sediment data collected from the river have indicated that it is reasonable to assume that the column instead of being transported to other locations in the river. It is possible that waves locations will still tend to maintain velocities that are low enough to promote settlement of of created habitat areas, see DMMP/EISMonitoring Plan (Appendix M).

Organization

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Comment 22

Dredging impacts invertebrate production. The DEIS does not examine these impacts thowughly. Response

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evidence that the disturbance is long-term." (Allen and Hardy 1980) In addition, for 'hew work' dredging (i.e., dredging of previously undisturbed river bottom) replacement fauna may take two Routine maintenance dredging causes short-term disruption of bottom faunas, but there is little years to repopulate an area. (Allen and Hardy 1980). Bennett et. al. (1995) reports: "increased benthic invertebrate abundance in disposal areas... benefits ... the (Lower Granite Reservoir) system." The proposed construction of shallow water benches is expected to create more invertebrate production and/or collection along the shorelines, where fall chinook rear as juveniles.

areas, he demonstrated that the mid-depth disposal area took approximately four years to achieve parity with the reference stations. This is despite all benthic stocks showing decreasing trends over a five-year time period leading up to the drawdown test in Lower Granite Reservoir (Bennett et. al. 1993). In addition, Curet 1993 reported that the most important food items to fall chinook Although Bennett et. al. (1991) indicated that the digochaete biomass was lower at the disposal the reservoirs were Cladocerans, Ephemeropterans, Homopterans and Dipterans, composing 96% of their diets. Oligochaetes were not mentioned. Increasing shallow water habitats in the reservoir would actually increase habitat diversity on the larger scale.

Columbia River Inter-Tribal Fish Commission

Comment 23

demand and releases of contaminants including specific toxics, free sulfides and ammonia (Allen Potential water column impacts from dredging include increased turbidity, increased oxygen and Hardy 1980)

quality impacts are expected to be localized and temporary. See Response to comment 13 above. The DMMP/EIS acknowledges the likely water quality impacts that would result from dredging and dredged material management activities. However, increases in turbidity and other water

Columbia River Inter-Tribal Fish Commission

We believe that the current samples are insufficient to make conclusions about toxic spread from Comment 24

dredging activity.

for dredge sampling is contained in Appendix J (Dredged Material Evaluation Framework) of the contained in NMFS' Biological Opinion (2000) and the Monitoring Plan (Appendices F and M). regulatory requirements to protect water resources and fish and their habitat. The methodology DMMMP/EIS. Additional information concerning monitoring requirements during dredging is Existing sample analyses along with additional sampling prior to dredging would fulfill

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U.S. Army Corps of Engineers

Comment 25

significant issue not addressed in the DEIS. This is a key cumulative effects issue that must be The future of the Potlatch Mill in-river disposal of toxics into the Clearwater River and Lower Granite pool and these toxics being continually entrained in the river from dredging is a addressed in the FEIS.

throughout the project area have been considered in the evaluation of water and sediment quality. The effects of industrial and municipal discharges to waterways in the project area are reflected in the water quality and sediment quality data that the Corps has used in developing and evaluating effects analysis. Regarding cumulative effects, the comment is correct in that future water quality permitting decisions for Potlach were not specifically discussed in the cumulative effects significant direct, indirect, or cumulative impacts are not anticipated to result from the proposed Section 4.15 of the DMMP/EIS has been revised to provide additional detail on the cumulative continue to sample and analyze sediments and use these dataset in the future. Based on the dredged material management alternatives (as documented in the DMMP). The Corps will analysis. However, the long-term effects of discharges from Potlach and other sources existing data and the regulatory history of dredging and dredged material management,

Organization

Columbia River Inter-Tribal Fish Commission

Comment 26

water column by the proposed initial dredging and redisposal into the river environment places The impact of a stew of toxic and organic and inorganic contaminants being entrained into the slamonid populations at risk.

Response

analyses will evaluate the potential effects on salmonids and other potentially affected species and, if dredging can be done, will determine the dredging methodology, amount and type of monitoring needed during dredging, and where the excavated materials will be relocated to, either dredged material evaluation framework. DMMP/EIS Section 3.9 presents a discussion of the Prior to any dredging, the proposed areas will be sampled and analyzed per the guidance of a status and applicability of the dredged material evaluation framework. The results of these in-water or on land.

Organization

Columbia River Inter-Tribal Fish Commission

Comment 27

Essential Fish Habitat. The DEIS fails to provide details on critical habitat surveys with respect to spawning steethead and fall chinook, and rearing areas for these species and spring and summer chinook. Surveys should be completed, in consultation with the tribes and state and federal fisheries agencies before dredging isfurther considered. The results of these surveys should be exhibited in the FEIS.

adversely affect fall chinook salmon. However, the Corps would be producing a long term benefit to these salmonids by creating rearing habitat. The Draft DMMP/EIS addresses Snake River behavior and life stages in the project area and indicates that proposed activities would likely These issues are addressed in the DMMP in Appendix F. Appendix F outlines fall chinook

Final DMMP/EIS

Walla Walla District U.S. Army Corps of Engineers

Basin steelhead on pages 48-50, covering behavior and life stages in the project area and determined that proposed activities would likely adversely affect juvenile fish by dredging, however, not likely adversely affect adult passage based on the type of dredging involved. In addition, the Draft DMMP/EIS addresses Stake River Basin Spring/Surmer-Run Chinook on pages 45-48 indicating that proposed activities are likely to adversely affect overwintering and rearing fish of these runs. Substrate surveys have indicated that most of the areas that will require dredging do not contain the adequate substrate size for spawning fall chinook and steelhead. This, in combination with the water velocities required for incubating redds, leaves only the tailraces of the dams as areas that were adequate for spawning. The NMFS Biological Opinion (2000) indicates, in section VII.C.1.3, the Corps will not dredge in the tailraces of the dam until redd surveys have been completed, as anticipated by the Corps (see Appendix F).

Organization

Columbia River Inter-Tribal Fish Commission

Comment 28

It is critical that the Walla Walla District and Region 10 conduct government to-government consultations with our member tribes regarding the DEIS and development of the FEIS and ROD. Response

The Corps has initiated Government-to-Government consultation with the affected Tribes and plans to complete consultation prior to signing the ROD.

U.S. Army Corps of Engineers Walla Walla District

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lez Perco

TRIBAL EXECUTIVE COMMITTEE

January 15, 2002

Department of the Annry
Walls Walla District, Corps of Bagineers
ATTN: Dredged Material Management Plan
201 North Third Avenue
Walla Walls, Washington 99362, 1876

RE: Druft Drodged Meterial Managament Flan and Environments Impact Statement, McNary Reservoir and Lower Snake River Reservoirs

To Whom it May Concern:

The Nex Perce Tribe appreciates the opportunity to comment on the draft Dredged Abactola Managament Plan and Environmental Impact Statement (DAMAPRIS). After reviewing this document, the Nex Perce Tribe has concluded that implementation of say of the alternatives presented in the clark DAMAPRIS. Including the preferred alternatives would likely sestiously decrade the fishing resource, and so cause irrescrible harm to fish species protected under the Endangered Species Act (ESA), in addition, such action, would adversely impact federally and judicially confirmed ineasy rights of the Nex Perce Liths.

In 1835, the United Shazes negotiated a treaty with the Nez Perce Tribe. Treaty of June 9, 1835, with the Nez Perce Tribe, 12 Stat. 957 (1835). In Article 3 of the Treaty, the Nez Perce Tribe explicitly neserved to themelwee certain rights, including the exclusive right to take fish in streams running through or bandering the Russevation. The right to fish at all tunal and accustomed places in common with the citizens of the Territory and of erecting temporary buildings for curing, together with the privilege of funding, gathering roots and burries, and pasturing their horses and earlie upon open and unclaimed lands." These right include the right to fish within the project area identified in the draft DMARPEIS, and the right to fish within the project area identified in the draft Control Russe.

The Nez Perce Tribe has a treay-secured interest in these natural resource. This guaranteed right has repeatedly been recognized and reaffirmed by the federal courts. However, this guaranteed right is meaningless if the fishery and the habitat that supports the fishery is not protected and preserved.

Salmon are integral to the spiritual, physical, and economic health of the Nex Pence.
The ... The Interness the Takery and the waters that support if for the life and statisticators these resources have given, and continue to provide Tithal members. The Statisticators these resources have given, and continue to provide Tithal members. The Statisticators confider is an important migrationy route for titrastated spring, summer, and full chinook salmon, as well as stocklosed flats. Adults use the States River to access governing flats located throughout the Clearwaint Basin, Salmon and steakhead smolts use the same confider to return to the ocean. Any activities that potentially threshes these very important measures are of great concern so the Title.

The Near Purce Tritle commends the Army Coops of Engineers (Coops) for their response in the dreft DMARPES to some of the concerns raised in our November 13, 2000 comments on the Draft Sancim Lower Status. Clearwater, and Columbia Rivers Dredging Ecvinearmental Assessment. We also commend their concern with habitat improvement and beneficial us of drafged masterial. Major concerns, though, remain regarding the proposed dredging plan alternatives, including the preferred alternative.

The following are the Nex Percs Tribe's comments. We also incorporate by reference the comments of the Columbia River Inker-Tribal Fish Commission.

General Community

A. Endengered Species Act Israes

7. Critical Habitat

The draft DMMEPIEIS acknowledges that the project area is destignated critical habitat for all flow Stake River salmon ESU stockt. The Lower Stake River and McNary Reservoir are designated as critical histite for nigration gassage of wild Stable River sockeye. The document site states a this since designing will occur when those flat are not present, there is so deleterious impact to their habitat. The ESA, however, defines a destruction or adverse modification to be a "direct or indirect alteration that dirminishes the value of critical habitat for both the aurelvel and recovery of a listed species. Such alterations include, has an ord limited to, alteration adversacly modifying any those physical or belongical attributes that were the basis for determining the habitat to be critical "TOC.F.R., § 402.O.T. The preference of the aspecies at the time of the alteration is not a factor. The draft DAMAPIEIS also acknowledges that critical fabritic attributes and EFH components suitable for potential reasing or overwindening for Stake Stake Spirally Summer chimote as altered to the province at the proposed project areas during the witner in-water work witsdow and in Novembra at the loss site. These habits components would be adversely affected by any dredging activities. The deaft DAMAPIEIS does not give any information us critical habitat for fall chimote or built trout. Impacts to cribical habitat for fall chimote or built trout.

Additionally, the druk DAMAPFIIS states that since dredging will only occur in the main marigation channels that critical beloint areas near shore will not be impacted. Even if

those areas will not be directly impacred, they will be affected since the river is a system, and it is impossible to impact one area without also impacting rearby area. Thus, the adverse impacts would be indirect ones, which are not allowed under the ESA.

2. Endangered Pish

The draft DMMP/EIS acknowledges that some adult steethead may be in the stress proposed for dredging and disposal thing proposed dredging periods. The stated midgation approach is to dredge when these species are less likely to be present, and to see Sannishell dredges, which are unlikely to entain fish. Both these species are instanced as an anadequate to proceed title. The dredging will release sediment and twice substances that will adversely impact any fish that are present. Authorap, fish do try to leave an area due to moise med other stinauli, this reaction cannot be counted on to assure that fish will not be directly harmed from the dredging even if centralmout does not occur.

The draft DMMPREIS also states that the only known buil troot population in the project area, that in the Tucamone River, is considered a healthy outs, and no does not address possible harm to that species. It is important, though, that healthy populations of ESA-listed species be particularly protected since they are the bests for that species' recovery. Thus, noticible impacts to Tucamon River buil front must be included in the draft DMMMPREIS.

The draft DMMP/ELS does not address possible ham to full chimode salmon, which have been observed overwintering in the project area. Sub-warling full chimode would be misculaft vulnerable to impacts from dredging.

B. Urability of Dredged Material

The fessibility of all alternatives, particularly the preferred alternative (Alternative 4), depends on the usability of the drodged material. Despite the statement in the draft DMINFIRE that it is improbable that dredged material would be even modernately contaminated, the date on which that conclusion is based is dust from 1997 and 1998. It is highly likely that more necest date would show different results, especially in light of effluent from the Potiatch pulp and paper mill and agricultural runoff. Much of the not meet water quality standards and contain concamination at a level that would other proposed beneficial uses.

Tarthermore, the draft DMMP/EIS does not give adequate information on how the usability of drafted material will be determined. It seates that wherever a load of dredred material will be determined, there will be done. A visual starbuist, though, is far from being an adequate indication of the presence of contamination. Also, the draft DMMP/EIS does not state what analyses would be done on the material, nor the DECCHARGE of the drafted material, nor the contamination and the cont

The Nez Perce Tribe concurs with the assestions in the draft DMUPPES that upland disposal of deedged material will have adverse effects on terrestrial wildlife. The Jose size is managed as a wildlife habitat management unit (HMU), and the Chief Timothy site borders as HMU. Disposal at either area would have is armful impacts on efforts to provide habitat for wildlife. The mitigation proposed in the draft DMUPPES (in Section 4.2.5) of purchasing new land would not truly competible for the DMIPPES (in Section would still be displaced, and there is no numerate that the baking to habitat. Wildlife would be as suitable.

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C. Craution of In-water Habital for Plats

The draft DMARPEIS proposes the creation of station-water babites as a major disposal neither of or drafted material and a prominent mitigation measure. While the Nore Perco Tribe upplicated the Corps' effects to benefit aquatic resources, there is a notable lack of tables and lasting, River currents and that fact the process contraction of that habitate will be any constructed of that habitate while because of course and destroying the babites freed easily eccolorate and high flows during spring monte could easily eccolorate and high flows during spring monte could easily eccolorate and power and the actually we such constructed abuiltow water habites. The draft DMARPEISI is similarly lacking in references to research aboveing that meaning water produced shallow water habites. The Lower State River, which has several ESA-listed flat species, is not so appropriate place to experiment on construction of fast habites. There is also the issue of whether the dredged misserial is suitable for in-river disposal, as stated above.

D. Tribel Trust Responsibility and Government-to-Government Consulation

In Executive Order 13084, President Clinton provided that "such agency thall have an effective process to permit elected officials and other representatives of Indian tribal governments to provide meaningful and timely hight in the development of regulatory policies on insiders that significantly or uniquely affect their communities." According to Praidest Clinton's April 2A, 1994 memorandum regarding Government-to-Government for Relations with Native American Tibal Government, fodein lagraciae "shall assess the resources and assume that Tibal government flush and concerns are considered chaining the development of such plans, projects, proposals, and activities on tabal trust the development of such plans, projects, proposals, and activities." As a result Federal culture, religion, arbaintence, and commerce. Consultating those associated with tribal component of this process.

Consultation is the formal process of negotiation, cooperation, and mutual decisionmaking between two soveraign nations: the Neg Perco Tribe and the United States. Consultation is the process that ultimately lends to the development of a decision, not just almost each or a means to an end. The most impostant component of consultation is the phyposed, requesting written comments on that prospective action, and then proceeding with the action.

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The Corps has not complied with its own policy guidance on tribal trust and consultation in the preparation of the draft DMMPEIS. This guidance states that the Corps will work more trust obligations, protect trust resources, and obtain tribal views of trust and treaty responsibilities or actions related to the Corps. Further, the pulsance states that the Corps will reach out and involve tribes in collaborative processes to casure information exchange and disparate viewpoints before and during decision making. The single only addressed cultural resource issues, as west time-limited. Consultation was initiated, but certainly not completed.

The Nez Perce Tribe requested an extension of the deadline for comments to that they would have adequate time to review the draft DMMFPEIS. The comment period was boot, and spanned the Christmas and New Year's holidays. It was insufficient time for review of the axtensive documents comprising the draft DMMFRISS, and obtaining the necessary approval of the comments by the Nez Perce Tribel Executive Committee. In response, the Corps required draft comments by the original comment deadline, only allowing eleven extra days, and January 18, 2001, for the final comments. This time limitation does not meet the spirit or letter of tribal comsultation requirements.

Additionally, the draft DMMP/EIS states that a Local Sectiment Management Group (LSMG) has been formed, which will assist in the development and adoption of appropriate methods in the management of dradging and disposal of dradging materials. This group, the considerable influence on important decisions and actions related to dradging. The group, however, has no members from the Nez. Perroz or other Indian titles. The Tribes are among those groups the draft DIMMP/EIS indicates will be asked to participate only on an as needed basis, All dradging and most of the disposal options for dradged materials impact fish and their habitat, and as also impact the Nez Perroz Corps, consultation must take place with the Nez Perro Tribe's consultation must take place with the Nez Perro Tribe.

E. Environmental Justice

A Presidential memorandum accompanying Executive order 12998 cites the NEPA process as an opportunity for agencies to address the environmental injustice of disproportionab impacts. Currendly, the Nor. Peace Title harvests less than I percent of traditional animon harvest levels. Traditional roots and berries are becoming incrent of realtinonal animon mas and the disappearance of other traditional foods have seriously impacted the Tribul economy. Today, Tribul members since a povery rine of almost 30% and winter unemployment rates of 62%. The draft DMAMPEIS finds that members. Any impacts on salmon, which all the illematives have, have a disproportionate impacts of the project on the Nex Perce Title or its members. Any impacts on salmon, which all the illematives have, have a disproportionate impact of the fore Title. The statement in the draft DMAMPEIS (cofford 4.13.1) that the codiment plumes created by DMAMP actions would be harmless to fish its based on a 1945 literature survey, and cannot be conditively used in the current situation. The statement (section 4.15) that no significant changes are expected in water quality from toxic substances, if based on the data presented in the draft DMAMPRIES,

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must be re-evaluated with more current data and in light of new, stricter tentic standards. The straitstice must also consider human health impacts, and the increased impact on this, mentions who consume greater quantities of fait.

F. Range of Alternatives

17 The dealt DMMP/BIS does not present a reasonable maps of alternatives, NEPA provides that all federal agencies shall, to the faltest extent possible, '[s] judy, develop, and describe appropriate alternatives to recommended courses of action in any proposal which involves unaveolve conflicts converning alternative uses of available resources.' (9th Cir. § 4322/2)(B); idoho Conservation League v. Mausen, 956 E.A. 1508, 1519-20 alternative readent as a virtonmental impact statement inadequate. Cuttoria for a Briter Henderson v. Hodel, 768 F.24 1631, (1957 (9th Cir. 1985).

18 Changive I, which is persented as the so-action alsomative, is not truly no-action, but useful presents plants que management of the project arm. A true no-action alsomative is not in which dirighties does no occur. Although the Corps stages that the sediment needs to be removed from the savigation channel at the upstream and of Lower Grants Reservoir to provide for uncerticited anyigational use, the Next Perco Tribe believes that that occurs at this site. The DALAPPING does for dealing with the choosic andmentation that occurs at this site. The DALAPPING does for provide as analyzis that consider the next of the property of the property of the providers.

19 having anyigation be illusted to periods of higher flows, not limiting navigation at some periods to having anyigation at some

Movover, all the alternatives peasented in the draft DMARPEIS are dradging alternatives.

It is shortsighted for the Corps to focus on only "end of the pipe solutions" rather than the sources of oddinent loading. Although the DMARPEIS states that the Corps does not have the authority to control lead uses and land management practices in the was mulciply of the watershed, they could contribute the motor used for dredging to spouse programs to address upland and streambank troatm problems in the upper watershed. The New Perror Tribe ballews that the only reasonable, long-term solution is to address there only reasonable, long-term solution is to address these proper should therefore, includes an alternative that focuses on table in DMARPEIS currently includes alternatives that require the cooperation of other local, state, and factoral supervalents of other local, state, and factoral supervalent of this new alternative could also.

Importantly, the draft DeMAPRIS does not consider beneating the four Lower Stanke. River dams in its alternatives. The Corps' recent decision not to breach was based only on issues of juvenile fish imparion. There are additional economic and environmental constituentions that need to be assessed in particular, breaching Lower Carnile Dem may be the only economically feasible long-sum solution to the problem of sediment accumulation and potential flooding of the City of Lewiston. It is highly probable that the proposed 3-foot ieves raise in the alternatives will prove inadequate within the next five

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to fifteen years. A further raise in the loves would likely prove extremely expensive since it would also entail raising bridges and addressing road infrastructure requirements.

Specific Comments

1.2 Purpose and Need

The Corps states that project purpose and need is to restore the authorized depth of the navigation channel, remove sediment from port areas, provide for recreational use, and navigation channel, remove sediment from port areas, provide for recreational use, and state of validities habitan planting includion. The design and Harbor Act of 1945 (Public Ear 79-14), it is inclear from the dreft DMMIP/EIB. whether this inland any regardor system/whether one proported without maintenance decigning. Although drefting is sutherized, it is not required, and so technically the Corps does not need to dreftine.

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2.5.1 Alternative I – No Action (No Change) - Maintenance Drudging With In-Water Disposal

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The Ner Perce Tribe strongly objects to the No Change in-Water Disposal alternative.
This alternative proposes removing sediment from the navigation channel, and disposing
of the dredged material at the deepwater disposal site. This is not as accognishe
alternative as the removal and disposal of the sediment would cause negative impacts to
water quality, the benthos, and several ESA-listed species. Environmental impacts could
be widespread as several disposal sites would be required to accommodate the volume of
dredged material.

2.5.3 Alternative 2 – Maintenance Drugging With In-Water Disposal to Crease Fish Rabites and a 3-Food (4.9m) Levee Raise The Nex Perce Tribe is also opposed to Alternative 2. We have the same concerns about water quality as for Alternative 1. in addition, the Tribe has concerns about the creation of fub habitat as expressed in the General Comments section, as well as the proposed ever rules and disposal process as described below.

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Section 2.5.2.2, Disposal Process. The draft DMMP/RIS describes in detail the process of building stablow water babias for juvenile salmon. It does not, however, cite any references or sources for the unabless gives in the structure of this habitain, not its extent. Further, the document states that the minimum surface area for shallow water habitat is four actes, but acknowledges that sverage pre-impoundment babitat was larger.

Section 2.5.2.3, Levee Raise: As stated in the General Comments section, the Tribe has concerns that the proposed 3-foot leves raise will prove inadquate within the next five to fifteen years. A further raise in the levee, which would likely be prohibitively expensive, would then be required. The Tribe believes the above alternatives for flood control for the City of Lewiston must be assensed. Breaching one or more of the Lower Stake River durns would likely be a more cost effective and cookagically beneficial solution. An

economic analysis of cost of further leves raises compared to that of dam branching and updream flood control is second.

2.5.2 Atternative 3.—Maintenance Dredging With Upland Dispend and a 3-Food (0.9m) Love Raise

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The Nex Perce Tribe objects to Alternative 3 and uning upland disposal for decined material. Upland disposal has serious drawbacks, which the draft DividePrixs extraoreledges. Additional deciging would be required to restone access to the proposed let, and a devastering precess would be required at the transfer station used to move the material from water to lead. The efficient from this process could be highly cochaminated, and could cause a braidity platne as well. Water quality, the benthic community, and ESA-listed fish could all be impacted.

Section 2.5.3.2. Upland Disposal Site: In addition to the concerns expressed in the General Comments section, the Title is concerned about possible conteminated material being deposited at the site. To death DishiffyIRIS state that such material would be bolized and appropriate confinement material action. a.g. as imparvious lines would be installed to provent leaching. There is national bowers, remains have would be installed to provent leaching. There is national bowers, remains have would be determination be made of whether divide material is contaminated or unsuitable. A description of this process and an analysis of its cost are needed. In addition, supposedly impervious linest have a long history of behing which could result in the contamination of groundwater. Contaminated material could also result in it is quality impacts through well.

2.5.4 Mernetive 4 - Materianace Drodging With Boneficial Use of Drodged Material And a 3-Foot (2.9m) Lorse Rates The Nez Perce Tribe does not support the Proposed Action Alamative due to concerns expressed above regarding ISSA-listed fish species, fish labtlest creation, possible spread of contamination from dredged meterial, and the long-term ineffectiveness of the leves raise. The Tribe has the following additional concerns regarding the feasibility of the proposed beneficial uses:

27 Section 2.5.4.2, Beneficial User: The beneficial uses described is the death DMMPPETS all require a local sponsor to contribute a share of the cost. Has my research been done into the likelihood of finding such sponsors, how many would be needed, and for what period of time? Unless the required number of sponsors exists, the plan will not be able to be implemented successfully.

Section 2.5.4.2.3, Posting Soil: There is no economic snalysis given to support the fessibility of using dredged material for potting soil. How much of the dredged material would be suitable for potting soil given concerns about the presence of toxics? What are the plane for testing of dredged material to secure it is appropriate for this use? What is the scenomic impact of that testing?

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Section 2.5.4.2.3, Riparion Habitat Removation: If few or name of tentative spontous actually participated, how would this abounsitive be affected? Since all these spontons are tentative, this scenario could occur making this use of dredged material infeasible.

Section 2.8.8 Monttoring

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The draft DMMIP/EIS states that a detailed monitoring plan will be presented in the finaplan, Once the final plan is published, it is too lais for the public to comment on its adequery or inadequery. Monitoring is a critical component of any plan, and it is essential that the public have the opportunity to evaluate and comment on it.

Section 3.1.1 Fiek

3.I.I.I Anadromous Pith

In several cases, the draft DMMPINIS provides contradictory information regarding anadromous fish. It states that wild State River spring/summer chimok salmon and stult stealshead are likely to be present in the proposed project areas during the winter in-water work window and in November at the lose size, But it also asserts that overwintering in the proposed dredging area is probably ancomonic, and hardress one a cause for concern. In addition, it states that the clambful dredge will not entain fish because of its design however, it says that the postibility of entainment does exist. Such statements of one provide sufficient proof that no therm will be occur as required under the Endangered Species, and Act. Certainly, any fish that are present will be harassed by the dredging estivities in violation of the ESA.

30 The volume of relocated sediment caused by the dredging is a particular area of concern. The lower States River has a large sediment load that would be caracristed by the dredging through ne-suspension of sediments into the water column. Increased sediment has particularly harmful habitat impacts, and negatively affects all life creles of fish. Sediment deposition causes on increases in cooked canbed sediment causes gills, quality. Sediment despesition trates, and can reduce the growth rate of large tablest intrinsion and metabolic streat, and can reduce the growth rate of large large fall irritation and metabolic streat, and can reduce the growth rate of large sediment causes gill irritation and metabolic streat, and can reduce the growth rate of large stationals are present at the time of the scheduled dredging, is important that they not be harmed.

31 The deaft DMMP/EUS asserts that a small portion of the total life history of these fish is spont under direct influence of the hydro system. This statement is misleading since it spont under due timportant fact that the time under the influence of the hydro system; critical to the conditing survival of the fish in addition, the statement is inaccurate. There are some anadromous fish that spawn and rear under the direct influence of the hydro system.

In its recently released Biological Opinion on the Foderal Hydropower System, the National Marine Fisheries Service stated that he focus for restoration of salmon will be on babina. Clearly the impacts on habitat of deciging at the scale proposed directly contradict these goals.

3.1.12 Resident Fith

With respect to built brout, the draft DMMPEES acknowledges that there is the potential for flat to be displaced from the dredging arc. It also asserts that any built broat in the area would be statified and move sway from the disturbance, thus preveating direct harm. However, the noise or shock wave succised with release of dredged manerial, as well as the sudden change is that the profession has the profession as a success energy expenditure as well as less of habitei. The Endengered Species Act publick harament of this type. The finding that dredging and disposal operations may affect, but are not likely to adversely affect but ingoons the potential to said that seament described aboves.

3.5 Ciritural Resources

The Nex Perce Tible is concorned that the diredging will harm cultural properties. The dark DMMPRIES acknowledges the existence of approximately 600 known archaeological siles within the propertience. The changes in reservoir levels harm cultural resources. Although the deciding is insteaded to go no desper than the natural river bottom. It is not clear that the deciding is insteaded to go no desper than the natural river bottom, it is not clear that the decidens will know they have reached that point until they decige up river rocks, at which point they will have already disturbed any cultural properties at disposal cless for dredged materials could suffer long-term impacts, as parietly those that are currently underwater and so difficult to identify.

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3.5 In a November 23, 2001 letter to the Nea Perce Title, the Corps stated their intention to do cultural resource assessments of all Alternative 4 undertakings on a case-by-case batts. The Title supports this assessment process.

3.9 Water Quality/Water Resources

The Nez Ferror Tribe is concerned about the water quality impacts of all the dradging, scenarios. Water quality effects of the dradging acknowledged in the draft DMMPGIS. include turbidity plumes, re-responsition of materials, and ammonia. Turbidity is known to be harmful to all life stages of finh. It leads to an increase in salinity, which harms freshwater blots that cannot comocepulate even a small increase in salinity. Ammonia is toxic to aquatic organisms. Toxic compounds are alte a concern.

Section 3.9.1.6. Lower Snake River Water Quality:

The most immediate and obvious water quality impalment resulting from the dredging is large turbidity plumes maching up and down stream of the dradging sites. Dredging

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activities may potentially occur non-stop during the alased project period resulting in extended periods of increased water turbidly. Elevated turbidly reduces the amount of light potentiation in the water that reduces photosynthesis and the production of dissolved oxygen. Suspended sediments that eachoe during the removal process will reactive. locally and downstream of the dredge and disposal sites. Suspended materials can clog fish pills, reducing disease resistance, and affecting egg and larval development. The draft DMMP/EIS states that fish only had damaged pills when extreme quantities of sediment were suspended in test waters. What we those levels? How do they compare to projected increased tachidity from dredging? Until these questions are answered, no excurate assessment of the impacts of increased turbidity from dredging can be made. covering the stream bottom, smothering fish eggs, and henthic macroinversabrates both

Increased inhidity is also a concern state as suspended particles about beat resulting in successed water temperatures. Elevated temperatures can lead to a reduction in caygan content of water which in turns impacts rates of photosymbatis, metabolic rates of aquatic organisms (e.g., ESA-listed salmonids), and the sensitivity of squatic organisms to environmental servases such as disease, parasites, and toxic wastes.

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the redox state of sediment associated contaminates or nuclearly. A celentific analysis of potential sediment successive the contaminate mobilization due to changes in oxygen concentration is not provided in the draft DMMPRESS. Specification, the short and consystem a tile-specific impacts to phytoplantion seasonal succession patterns and production should be discussed. In addition, the draft DMMPRESS should include an production should be discussed. In addition, the draft DMMPRESS should include an analysis of the mobilization potential of sediment-associated contaminates, the concentration of these contaminates in the in-water disposal sizes, the size of the unbidity plume, and the potential for bioaccumulation of contaminates through food web interactions. Changes in oxygen concentrations at the sediment-water interface can also affect pH and

problem, in a situation where nitrogen compounds are clevated, a very small amount of phosphorus can cause algae blooms to occur. This is particularly true in waters, such as the Lower Stake River, that are a situacy classified as tupor enteorrophic to entrophic. Even though the proposed work window is in the winter, harmful algal blooms can still occur. There is much evidence of algae growth during winter, and even under ice. The proposed on-site testing for these compounds is not adequate for avoiding impairment of As the draft DMARPHIS states, the Saske River sediments are very rich in muricus. The water quality and possible harmful impacts to aquatic organism. Once the compounds are released, the damage is done. It is possible at that point, however, not to do further proposed dredging could cause the release of ammonia (NHs), which is toxic to aquatic life. Both nitrate and ortho-phosphase could also be released, if is known that algae booms are mostly likely to occur when nitrogen and phosphorus both increase Despile the strainent in draft DMMP/EIS that small releases of phosphorus should not pone a 90

The existence of coxic substances in sodiments is a concern. The dark DMMPRIN same that chlorinated furns and dioxin congeners were detected in sediment samples collected

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revealed the presence of chlorine dioxin congeners at several of the proposed project sizes. Given the past variability in the denotine of these chemicals it is unclear whether the 2000 sediment contaminate data is truly representative of what will be found throughout future dendging activities. Furthermore, the draft DAGNETES gives assummer without providing the supporting science and data, that contaminate levels are below those that would eliminate an in-stream disposal option. from the project area is 1991, 1996, and 1998. Sediment data collected in 2000 has

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Another concern of the New Perce Tribe is the reliability of the toxic substance data see. for assessing waste quality and public health impacts. The dark DeMAPINS into this that recent sampling data is not available for sersa where dendging is proposed in the lower goaler River. Complete bestine sampling of toxic substances must be performed in any proposed dendging sees the force dendging of toxic substances must be performed in any additional monitoring for means would be included in future sampling even that to dendging a specific sers," and that "home additional waste quality analysis for organic chemicals may be recommended by the Testing Framework as it develops," see not an adequate approaches to essure that water quality is appropriately anexsed.

for Class A Waters, the occurrence of laste concentrations where the potential either singularly or examilatively to adversely affect characteristic water uses, cause earte or chronic conclutions to the most sensitive bioth dependent upon those values, or start and public health, as determined by the department '(WAC 172-2016A). The Carps has not provided the supporting a citentific evidence than the presence of bediment-associated contaminates will be consistent which is State of Washington Surface Water (wally Standards. An economic way and the State of Potential exposure to twice or larminate is required in order to provided a restorable assumences that public health and squark; widiffe will not be regardively impacted through exposure to these contaminates darks, and after deciging operations. The Water Quality Standards for Surface Waters of the State of Weshington specifies the 7

The Lower Snake River is included on the State of Washington's 1998 303(d) list as a water quality limited stream segment for temperature, dissolved coxygen and total dissolved gas. As such, the Lower Snake River does not provide for the protection of cold water flah as required by the Chem Water Act, 33 U.S.C. § 1251 (a)(2). Clearly, further degradation of this waterbody should not occur from human caused activities.

Sections 3.9.1.9 and 3.9.1.10, Columbia Niver and State River Water Quality;

The Nez Perce Tube has the same concerns regarding nutrients, and loxic substances as for the Lower Snake River.

Section 3.9.2, Sediment Quality.

Sediment in the Snake River is contaminated with several compounds that are highly toxic to aquatic life. For example, the draft DMMPEIS states that dioxie TEQ exceeded minimum sodiment quality criteria. DDT, which is highly toxic to fish and invertebrates,

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41 cont, is another chemical of concern. Draiging has a high probability of releasing these substances into the water column. In addition, the data eited for metals are from a 1973 good, Mose carrent data is essential for any decision regarding the impacts of the decision or water quality.

Analyses in Appendix H are based on data from 1994-1997, but EPA has since newless the criteria for those chemicals and, as stated in the draft DMMAPIRIS, testing must be repeated. The documents says that the Come plans to evaluate the issue further and determine what, if any, additional testing and analysis may be needed. It is clear that more testing is needed. Without an accurate knowledge of the concentrations of these notes is the impact of the deedging cannot be scoursely assessed.

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Despire the acknowledgements of the presence of haemful substances in sediments, the dank DMMP/FIS states that, "Dredging the awigation channel downstream of the dank should have little effect on water quality since the minetal is be removed is expected to be river cobbies with some larger tooks with very small amount of fines." This conclusion cannot be accepted.

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3.10 Hazardous, Taxic, and Radioactive Watte (HTRW)

The Copy does not adequately address health impacts from potential exposure to contaminates from the long-term direct, add cumulative Impacts related to the proposed dredging in the draft DMMAPRIS. Consideration of public health is one of the proposed dredging in the draft DMMAPRIS. Consideration of public health is one of the proposed dredging in the draft DMMAPRIS. Consideration of public health is one of the enactment of NEPA (115 Cong. Rec. 19,009 (1969). Potential public health issues associated with the displacement and movement of contaminated public health issues associated with the displacement and movement of contaminated concern for the Nex Percent

One of the dredging sites is located less than two miles downstream of the Potlatch efflicent discharge pipe. Effluent discharge from this facility contains organochlorines. Dioxins are a group of these structurally related chiorhead organic consounds consisting of diblomo-p-dioxins and chlorinated dibentofarans. The 2.3.7, 3-TCCD form of dioxin is extremely work and a known andocrine disrupter. In February 1997, The World Health Organization upgraded dioxin from a "probable" to a "mown human carcinogen." The Environmental Pronoftion Agency (IRPA) has stated that individuals carcinogen." The Environmental Pronoftion Agency (IRPA) has stated that individuals van one was among or an an increased risk for enacer (EFA) 1997). The new discharge permit for the Foolstoh pulp and paper mill will continue to allow organochlodises to enter the Cheavaster River.

Diorina are found in soil and sediments that serve as serviconmental reservoirs. These chemical compounds can be incorporated into fish tissue via aquatic food web interactions. In fact, the presence of diorinal/tunst in fish that sillustroof the issuance of 59 fish consumption advisories by 19 states as of December 1998. People exposed to higher leaves of diorins include those groups, such as the Nex Perce Tribe, who consume foods e.g., 1919, constaining ligh dioxin concentrations. In an earlier EPA funded study, the Columbia River inter-Tribal Fish Commission determined that the mean rate of fish

consumption for Columbia River Basin Tribal members was approximately ten times higher than that of the non-Tribal community (CRITEC 1994). This inherest reliance on the fishery resource makes Tribal members particularly vulnerable to dioxin exposure.

44 cont. The absence of 2,3,7,8 TCDD, the most toxio form of dioxin, in the Corps rediment samples is justificient reason to conclude a non-significant burnan health risk from organochlorines. Lest toxic congeners were present and although these congeners were found in small amounts, expourse to those compounds is associated with many adverse health effects in laboratory saimals: Epidemiological subders have auggested that dioxins humans (BPA 1977). Simply stating that these constminates occurred in "small amounts" is insufficient evidence to conclude a finding of no significant impact to Tribal and non-Tribal community health.

The Corps' trust responsibility to the Ner Perce Tribe requires that the Corps protect the treaty-reserved fishery resources and Tribal health. As part of this responsibility, the Corps must carefully reservabase their proposed action to deed go the navigation channel and the impacts to Tribal health and well-being. This evaluation must include a determination of whether past findings of chlorinested fusions and dioxia congruens in nediment samples taken from project area in 1991, 1996, 1998 present a burnar health risk, in addition, this sevaluation should include a funnar risk nascenteres malysis that considers past, persent, and fature exposures to all toxic forms of dioxins.

KI Agnetic Repaires

4.1.1 Droiged Material Removal:

The Nex Perce Tribe has several concerns about the process of removing dredged material. The draft DAMP/RIN states that if there is a 5-NTU increase over background turbidity at a point 300 feet downsteam, immediate actions will be taken to reduce the plume. How did the Copysi decide on the 5-NTU over background number? Its there say exientific support for that number? Even though the draft DAMP/RINS asserts that the effects are local and temporary, a plume of suspended solds maching 1000 feet downstream can have a definitional affect on aquatic life, particularly any fish that may be in the are. If deedging spaces a large are, the effects will be even greated.

Additionally, even "labor-term" impacts can have long lasting effects on aquatic life. The draft DAMP/RINS also fails to deline what is meant by "short-term," and appears to be guessing at how long it would lake to accompiled the reduction.

The Corps lecks an adequate emergency response plan to address situations where turbidity exceeds the state of Washington Water Quality Stradurds. The EA states that the constructor will be required to counset the Corps within eight bours should turbidity street and temporarily stop deciding operations. However, the coststation of stradurgs cannot rull gate for impaired water quality. Detailed, procedural stops for addressing elevated turbidity and the associated militarity on nearment should be included in the death DAGNIFIES. In addition, the short and long-term impacts resulting.

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from these incidents on the plant, benthis, and fish community should be more thoroughly described.

The draft DMIMP/ELS assens that there would be ecological benefit from dredging to the rapkity. These references, however, are to the work of a single author whose research is funded by the Corps. This is not absquate scientific evidence. Also, there are no efferences to research showing that deciging in actually benefits beathio macroinvertebrates or white sturpeon. original river channel through improving the integrity of the river bottom, and so benefiting white sturgeous and benthic macroinvertebrates. The draft DAPAPPING class several studies (in Section 4.1.7) that show that benthic macroinvertebrates recolonizes

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The Tribe questions the need for hydranic dredging. Cas it he done without agineing the sediments, as stated in the druft DMMPRIST We also question the use of sincy for Wildide planting areas or to restone exoded streambanks for the reasons stated above in the General Comments section.

4.1.7 Critical Habitus Considerations:

See comments in the General Comments section.

4.6 Sociosconomics

See 16

O-82

importance of fish to their culture and spirituality. As mand above, in an EPA fundativity, the Columbia River Inter-Tribal Fish Commission determined that the mean rate of fish consumption for Columbia River Basin Tribal members was approximately ten times higher than that of the non-Tribal community (CRITEC 1994). The Nez Perce Tribe strongly disagness with the statement in the draft DAMAPHES that none of the alternatives are anticipated to disproportionassly affect low-income or minority populations in the area. Any adverse impact on fish and fish habitat has a disproportional impact on the Nez Perce due to their reliance on fish for food and the

4.14 Cumulative Effects

the requirements in NEPA. In doing a cumulative effects analysis, the Cops must consider all significant direct, indirect, and cumulative impacts of the proposed action. 40 C.F.R. §1508.25. A cumulative environmental impact is the sum total of all intermental impacts of the proposed action in consideration of past, present, and future federal or non-federal actions. 40 C.F.R. §1508.7.1 in violations of NEPA, the draft DMMSPEIS falls to discloss the current and likely cumulative effects resulting from the synespissic disturbance caused by the Stake and Columbia River dams, land use activities upstream of the project area, barge traffic, past and future diedging activities, and leves modifications. In particular, it does not consider the impacts of the Snake and Columbia, River dams at all, except to say that future drawdown assessive are unknown, and so The cumulative effects analysis in the draft DMD/PPEIS is inadequate and does not meet 8

centor be considered. The past and current impacts of those dams are ignored. Upstream land use activities as well as current sad fature burge traffic are not mentioned.

The cumulative effects on public health from exponers to chemical contaminates is also misisting. Specifically, this cumulative malvas should exemine the potential for concentralism the potential for some public wasts before, the focalized and down attems water quality impacts resulting from the mobilization of these conseminates due to embasticated this the potential biococumulation of conteminates in figh tiesse, and exposure to contaminates from regretability and exposure to contaminates from regretability impacts of contaminates and exposure to contaminates from regretability impacts of contaminates allowed by the current and new Potlants permits must also be included in the analysis. 5

Additionally, there is no mention of the cummistive effects on river morphology, both up and downstream of the Project Area and disposal sites, from repeased major disturbance caused by deciging and in-water disposal. An additional important concern is the decrease in channel stability caused by deciging through disturbance of hydraulic 25

Another concern that is not addressed is that the ongoing nature of the dredging may prevent the establishment of sperwings and reacing use of the Project Arra. Although the draft DMIMPRIS states that many imports studied are local and short-turn, it does not assess the recurring nature of the impacts over a period of years. This is especially important since the Project Area is designated critical habitat for rearing of salmonid 2

Since the actions proposed in the draft DAMAPERS are designed to establish a procedure for the disposal of designed material over the next twenty years, it is essential for the cumulative effects analysis to be thorough and complete.

The Noz Pence Tribe may have other comments and consons regarding the draft DNMMPELS, for due to the brief comment partied and the fact that the period spanned the Christmas and New Year's healtdays, there was issufficient time to throughly assets the extransive document. Despite repeated requests by the Nez Perce Tribe and others for an extransive document period, the Corps decided only to great a short extension for final comments. Draft comments were still due on the original consument deadline. Š

If you have any questions at concerns regarding this latter, please feel free to contact Barbara Erynn in our Water Resources Division (208-243-7368), Thank you.

Samuel M. Genney Sincerely,

Samuel N. Penney

Nez Perce Tribal Executive Committee Comment 1

fishing resource, and so cause irreparable harm to fish species protected under the Endangered The Nez Perce Tribe has concluded that implementation of any of the alternatives presented in the draft DMMP/EIS, including the preferred alternative, would likely seriously degrade the Species Act (ESA).

endangered UCRS chinook, endangered UCR steelhead, or threatened MCR steelhead or result in the adverse modification or destruction of their Critical Habitat. The determination of no jeopardy is based upon the current status of the species, the environmental baseline for the action Appendix F). However in the NMFS Biological Opinion, it is stated, "The NMFS has determined that the effects of the proposed actions will not jeopardize the continued existence of endangered SR sockeye, threatened SRF stellnead, threatened SRPs stellnead, The Corps realizes that dredging and disposal of material in the lower Snake River and McNary Reservoir may have negative impacts to some ESA-listed fish in the project areas (DMMP area, and the effects of the proposed actions."

Organization

Nez Perce Tribal Executive Committee

Such Action (implementation of any of the alternatives presented in thedraft DMMP/EIS) would adversely impact federally and judicially confirmed treaty rights of the Næ Perce Tribe.

The Corps' recommended plan includes provisions to minimize adverse effects on ESA-listed (RPM's) provided by NMFS in their Biological Opinion for the DMMP, the Corps will not porating conservation measures and following the Reasonable and Prudent Measures fish. In addition, the National Marine Fisheries Service (NMFS) has determined that by eopardize ESA-listed fish with its dredging and dredged material disposal operation.

Organization

Nez Perce Tribal Executive Committee

Comment 3

The presence or absence of the species at the time of the alteration is not a factor.

Clearwater rivers. Although most endangered or threatened salmonids use this area primarily as a nabitat creation by disposal, the DMMP/EIS indicates that beneficial use of dredged material will "The NMFS has determined that the effects of the proposed actions will not jeopardize round. However, because most of the proposed dredging area is in the main channel of the river, fewer fish use this area as rearing habitat, as most habitat preferences are oriented along chinook, threatened SRB steelhead, endangered UCRS chinook, endangered UCR steelhead, or the continued existence of endangered SR sockeye, threatened SRF chinook, threatened SRSS threatened MCR steelhead or result in the adverse modification or destruction of their Critical have a net benefit on critical habitat for fall chinook. The National Marine Fisheries Service shorelines. Because most shoreline areas are not intended for dredging, but are intended for migratory corridor, some fish including fall chinook and steelhead may rear in this area year The primary dredging areas are in the main channel near the confluence of the Snake and indicates,

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Responses to Comments

Habitat. The determination of no jeopardy is based upon the current status of the species, the environmental baseline for the action area, and the effects of the proposed actions.

Nez Perce Tribal Executive Committee

The draft DMMP/EIS does not give any information on critical habitat for fall chinook or bull rout. Impacts to critical habitat for these species need to be provided.

or result in the adverse modification or destruction of their Critical Habitat. The determination of Critical habitat is discussed in Appendix K of the DMMP/EIS. The primary dredging areas are in action area, and the effects of the proposed actions." Similarly, the US Fish and Wildlife Service including fall chinook and steelhead may rear in this area year round. However, because most of determined that the effects of the proposed actions will not jeopardize the continued existence of steelhead, endangered UCRS chinook, endangered UCR steelhead, or threatened MCR steelhead as concurred that the proposed actions may affect, but is not likely to adversely affect bull trout. the proposed dredging area is in the main channel of the river, fewer fish use this area as rearing habitat, as most habitat preferences are oriented along shorelines. Because most shoreline areas are not intended for dredging, but are intended for habitat creation by disposal, the DMMP/EIS endangered or threatened salmonids use this area primarily as a migratory corridor, some fish no jeopardy is based upon the current status of the species, the environmental baseline for the endangered SR sockeye, threatened SRF chinook, threatened SRSS chinook, threatened SRB indicates that proposed beneficial use of dredged material will have a net benefit on critical habitat for fall chinook. The National Marine Fisheries Service indicates, "The NMFS has the main channel near the confluence of the Snake and Clearwater nvers. Although most

Also see response to Nez Perce Tribal Executive Committee Comment 3.

Nez Perce Tribal Executive Committee

channels that critical habitat areas near shore will not be impacted. Even if those areas will not be directly impacted, they will be affected since the river is a system, and it is impossible to impact one area without also impacting nearby areas. Thus, the adverse impacts would be The drast DMMP/EIS states that since dredging will only occur in the main navigation indirect ones, which are not allowed under the ESA

cumulative - of dredging and dredged material management activities. NMFS has reviewed the likely impacts to ESA-listed fish species, and determined that the proposed activities would not The DMMP/EIS acknowledges the potential impacts and benefits - direct, indirect, and jeopardize listed fish species.

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Nez Perce Tribal Executive Committee

Comment 6

The stated mitigation approach is to dredge when these species are less likely to be present, and to use clamshell dredges, which are unlikely to entrain fish. Both these approaches are inadequate to protect fish.

estimates." This indicates that that only a small proportion of fall chinook may over winter every during the summer as subyearlings (Tiffan et al, 2001). According to Williams and Bjorm 1998, year. Dredging with a clamshell during the two specified periods, and when fish are expected to overwintered and migrated seaward as yearlings in spring was small and did not effect survival Fall chinook typically have an ocean type rearing life history and typically outmigrate seaward understands that this may still have impacts on adult Steelhead and rearing juvenile salmonids, "A small proportion of hatchery and natural subyearling fall chinook salmon residualized and migrated early in spring 1997; however, as with fish released in 1995, the number that be at low abundances, are acceptable methods for reducing the possible entrainment of fish. Furthermore, clamshell dredging allows fish to escape entrainment. Although the Corps the NMFS Biological Opinion indicates that the dredging and disposal actions are not jeopardizing the continued existence of the ESA listed species.

Nez Perce Tribal Executive Committee

Comment 7

Possible impacts to Tucannon River bull trout must be included in the drast DMMP/EIS.

fluvial life history forms. Adfluvial fish are also present in the mainstem upper Tucannon River as documented with one radio-tagged fish monitored in 1993. Within a few days, it traveled from Since the Tucannon River is the only major tributary in the lower Snake River that is a source of heading for the Snake River (WDFW 1998). Thus, individuals may migrate to the Snake River. As noted in the DMMP/EIS (Section 3.1.1.2) limited numbers of bull trout have been counted. above the Tucannon hatchery to the Starbuck area where the signal was lost. It appeared to be The bull trout in the upper Tucannon River and its tributaries (Cummings, Panjab, Sheep, and bull trout/Dolly Varden, it can be assumed that bull trout/Dolly Varden in the project area are Bear Creeks) and Pataha Creek are a distinct stock. Most major tributanes have resident and lucannon River fish. The general discussion relating to impacts to fish species presented in Section 4.1 of the DMMP/EIS apply to Tucannon River bull trout.

Organization

Nez Perce Tribal Executive Committee

Comment 8

The draft DMMP/EIS does not address possible harm to fall chinook salmon, which have been observed overwintering in the project area. Sub-yearling fall chinook would be particularly vulnerable to impacts from dredging.

Response

These issues surrounding fall chinook are addressed in the DMMP in Appendix F. pages F41-45 and in Appendix K, pages K3-7. The Corps outlined fall chinook behavior and life stages in the project area and determined that proposed activities would likely adversely affect fall chinook

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proposed activities will not be jeopardizing the existence of any of the endangered species in the salmon by dredging. However, the Corps would be creating a long-term benefit to these salmonids by creating rearing habitat. The NMFS agreed in their Biological Opinion that dredging area.

Organization

Nez Perce Tribal Executive Committee

Comment 9

and 1998. It is highly likely that more recent data would show different results, especially in light Despite the statement in the draft DMMP/EIS that it is improbable that dredged material would even be moderately contuminated, the data on which that conclusion is based is dats from 1997 of effluent from the Pollatch pulp and paper mill and agricultural runoff.

of concern will be identified prior to the start of dredging operations. A monitoring plan has been within the sediments to be dredged. The collection and analysis of sediment samples will be done whether unacceptable amounts of sediment movement may occur during dredging operations and require that the work be stopped and/or modified to provide additional controls or limit the extent analysis plan that is designed to provide a high probability that significant amounts of chemicals limit the extent of impacts if an unknown "hot spot" is encountered during dredging. The Corps results indicates that substantial irrpacts resulting from contaminated sediments remain unlikely. developed, and is included with the Final DMMP/EIS. Monitoring during dredging will assess Analysis prior to dredging will include chemical analysis to identify contaminants if they exist reintroduction of any chemicals of concern into the water column, monitoring will be used to sampled sediments in the areas of proposed dredging in 2000 as well, and review of sampling in accordance with the dredged material evaluation framework and a specific sampling and The findings presented in the DMMP/EIS are based on reviews of available sediment data. of sediment plumes in the river. While the Corps' intent is to test the sediment and avoid

Organization

Nez Perce Tribal Executive Committee

Comment 10

looks like it may be coutaminated, a test will be done. A visual amlysis, though, is far from being dredged material will be determined. It states that whenever a load of dredged material visually that would be analyzed. Importantly, how would the cost of these analyses impact the Jeasibilty state what analyses would be done on the material, nor the percentage of the dredged material Furthermore, the draft DMMP/EIS does not give adequate information on how the usability of an adequate indication of the presence of confirmination. Also, the draft DMMP/EIS does not of the proposed alternatives?

Response

be developed for each site that identifies the number of samples to be taken, sample locations, and the constituents that will be included in the laboratory analysis. The number of samples and the unacceptable materials will be identified prior to the start of dredging. The types of analysis to be discharges to the river from industrial, agricultural, municipal and other sources. Visual analysis In accordance with the dredged material evaluation framework, a sampling and analysis plan will would only be used to identify an oily sheen on dredged material. The cost of sampling and run on the collected samples will be based on the results of historical sampling, and known locations where samples will be taken will be designed to ensure a high probability that

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Walla Walla District U.S. Army Corps of Engineers

Also see response to comment 9 above.

Nez Perce Tribal Executive Committee

Comment 11

The mitigation proposed in the draft DMMPIEIS (in Section 4.25) of purchasing new land would not truly compensate for the loss of habitat. Wildlife would still be displaced, and there is no guarantee that the habitat in the purchased land would be as suitable.

monitoring plan will be prepared for review and comment. This plan would be the basis for site provide habitat values that would be lost as a result of use of the Joso site for upland disposal. While there would be no "guarantee" that replacement HMU lands would be "as suiable" as those lands that would be utilized, the Corps would take steps to ensure that mutigation sites Specifically, as noted in the DMMP/EIS, the Corps would coordinate with the WDFW and USFWS regarding mutigation site selection and restoration. A re-vegetation planting and

proposed dredged material disposal. Upland disposal, if employed, would involve placement of temporary impacts to upland wildlife, this activity would actually improve the existing upland habitat by filling and re-vegetating the quarry area with species native to the area. This would result in a long-term improvement of habitat at the Joso site. dredged material in the abandoned gravel quarry at the Joso site. Though it would result in At this time, no native upland vegetative communities are targeted for destruction due to

Nez Perce Tribal Executive Committee

Comment 12

that habitat will be stable and lasting.... The Lower Snake River, which has several ESA-listed There is a notable lack of references to research confirming that the proposed construction of fish species, is not an appropriate place to experiment on construction of fish habiat.

experimental fish habitat development began in the mid-1980s for in-water disposal at Centennial Island, and has demonstrated that in-water disposal is a viable method for creating salmonid include analyzing the disposal site to ensure its physical and biological integrity (See Appendix comment that the lower Snake River is no place for experiments on development of fish habitat, The NMFS requires in its Biological Opinion for the DMMP that additional monitoring of the M). Because the proposed areas are well within the reservoir, the physical integrity of them is nabitat will occur, which was anticipated by the Corps (Appendix F, FA-10). These studies thought to be more stable and less susceptible to erosion from high flows. Regarding the habitat in the reservoir.

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Responses to Comments

Nez Perce Tribal Executive Committee

Comment 13

The Corps has not compked with its own policy guidance on tribal trust and consultation in the preparation of the draft DMMP/EIS.

Section 6.4.3 of the DMMP/EIS the Corps provides the current status of Government-to-

has been initiated, but does not state or imply that consultation has been completed. The Corps is working with the tribes to set up Government-to-Government meetings to facilitate completion of Government consultation with the affected tribes. The Drast DMMP/EIS stated that consultation consultation with involved tribes prior to signing a Record of Decision.

Organization

Nez Perce Tribal Executive Committee

Comment 14

This time limitation (short comment period and only 11 day extension) does not meetthe spirit or letter of tribal consultation

The time limitation to respond to the Draft DMMP/EIS was set within the requirements of NEPA. The review of the NEPA document is not intended to constitute Government to-Government consultation with the Tribe. The Corps is committed to meeting tribal consultation requirements

in addition to meeting NEPA requirements.

Nez Perce Tribal Executive Committee

Comment 15

The group, however, has no members from the Nez Perce or other Indian tribes. The Tribes are among those groups the draft DMMP/EIS indicates will be asked to partcipate only on an as needed basis.

Response

Tribe, Confederated Tribes of the Umatilla Indian Reservation, Confederated Tribes and Bands of the Yakama Indian Nation, Confederated Tribes of the Colville Reservation, and the Wanapum Band have been invited to every meeting of the Local Sediment Management Group (LSMG). Technical staff members from most of the Tribes, including several from the Nez Perce Tribe, Representatives from the cultural resource and water quality technical staffs of the Nez Perce have attended these meetings.

Inbes and non-agency groups such as ports and transportation interests. The Nez Perce Tribe has Section 1.8 has been revised to show an expanded list of participants in the LSMG including been invited to join the LSMG as a regular participant.

Organization

Nez Perce Tribal Executive Committee Comment 16

dny impacts on salmon, which all the alternatives have, have a disproportionate impact on the

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Nez Perce Tribe. The evaluation must also consider human haılth impacts, and the increased impact on tribal members who consume greater quantities of fish.

Resnonse

The Corps' environmental justice analysis considered the effects of the alternatives on low-income and minority communities that are potentially affected. The DMMP/DEIS concluded that none of the alternatives considered in detail would cause a disproportionately high and adverse effect on low-income or minority populations in the area. The four alternatives considered in detail, including the no action alternative, would have indirect, minor, short-term effects on aquatic species. Two of the four alternatives, including the preferred alternative, would provide potential beneficial effects to aquatic resources through the implementation of beneficial uses of dredged material, such as creation of woody riparian habitat and/or shallow water fish habitat.

Given the fact that no substantial impacts were anticipated, and the dispersed nafure of most of the impacts that would be likely to occur, the Corps concluded in the DMMP/EIS that impacts would not be likely to be high, adverse, nor fall disproportionately on any demographic group in the project area. The discussion of environmental justice analysis is presented in greater detail in Section 4.6 of the Final DMMP/EIS.

The Corps acknowledges the importance of the Columbia/Snake River fishery to Native American communities both as a food source and as a spiritual and cultural resource. However, based on the analysis of the environmental impacts of the DMMP alternatives and consultations with resource agencies, significant adverse effects on aquatic resources, including salmon and steelhead, are not anticipated to result from the proposed action. Further, mitigation measures and efforts to maximize beneficial uses of dredged material proposed in the EIS are anticipated to minimize adverse effects to aquatic resources and potentially create new habitat for salmonid species. NMTSY Biological Opinion states that the proposed action will not cause jeopardy for endangered fish stocks in the middle Columbia and lower Snake Rivers.

Organization

Nez Perce Tribal Executive Committee

Comment 17

The draft DMMP/EIS does not present a reasonable range of alternatives.

Response

The range of alternatives meets the project purpose and need. Non-dredging and reduced dredging alternatives were considered. The Corps was unable to identify any non-dredging alternatives that would preclude the need for dredging. Reducing sections generated by land use practices was considered, but would not eliminate the need for dredging. Although the Corps has no authority to change land use practices on non-Corps property, the Corps plans to use the Local Sediment Management Group to pursue possible modifications to land use practices.

Organization

Nez Perce Tribal Executive Committee

Comment 18

Alternative 1, which is presented as the noaction alternative, is not truly noaction, but merely presents status quo management of the project area. A true noaction alternative is one in which dredging does not occur.

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When preparing National Environmental Policy Act (NEPA) documents, the "No Action" alternative can also be called the "No Change" alternative, as in no change in the current way of doing business. For the DMMP/EIS, "no action" was defined as no change in the way the Corps is currently maintaining the navigation channel, port facilities, boat basins, or irrigation intakes. This interpretation is described in the Council on Environmental Quality publication "NEPA's Forty Most Asked Questions." See response to Save our Wild Salmon's comment 6.

Response

Organization

Nez Perce Tribal Executive Committee Comment 19

The DMMPIEIS does not provide an analysis that considers having navigation be limited to periods of higher flows, nor limiting navigation at some periods to smaller vessels with less draft. Response

The Columbia/Snake waterway is managed to provide the authorized navigation channel yearround except for the annual lock maintenance outage in March. See response to Save our Wild Salmon comment 29 regarding options including limitations on ravigation.

rganization

Nez Perce Tribal Executive Committee

Comment 20

[A]II the alternatives presented in the draft DMMPIEIS are dredging alternatives. It is shortsighted for the Corps to focus on only "end of the pipe solutions" rather than the sources of sediment loading. Although the DMMPIEIS states that the Corps does not have the authority to control land uses and tand management practices in thewast majority of the watershed, they could contribute the money used for dredging to sponsor programs to address upland and streambank erosion problems in the upper watershed. The Corps shalld, therefore, include an alternative that focuses on riparian restoration and best management practices in forest and agricultural areas.

Response

The Corps expends funds only as authorized by Congress. Although the Corps has no authority to change land use practices on non-Corps property, the Corps plans to use the Local Sediment Maragement Group to pursue possible modifications to land use practices. Section 2.5.4 has been revised to include a new Corps initiative as a beneficial use. This initiative is the Woody Riparian Program, which is part of the Lower Snake River Fish and Wildlife Compensation Plan (LSRFWCP). This initiative allows the Corps to develop woody riparian vegetation on the Corps' lower Snake River project lands and on any lands purchased by the Corps as part of the LSRFWCP. As part of this initiative, the Corps is proposing to use dredged material to create planting benches and perform shoreline restoration to create more riparian habitat along the lower Snake River. As described in Appendix N, the Corps is proposing to use dredged material to create a riparian planting bench at the Chief Timothy Habitat Management Unit in the winter of 2002-2003.

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Nez Perce Tribal Executive Committee

fish migration. There are additional economic and environmental considerations that need to be in its alternatives. The Corps' recent decision not to breach was based only on issues of juvenile long-term solution to the problem of sediment accumulation and potential flooding of the City of Importantly, the draft DMMP/EIS does not consider breaching the four Lower Snake River dams Lewiston. It is highly probable that the proposed 3-foot levee raise in the atternatives will prove assessed In particular, breaching Lower Granite Dam may be the only economially seasible inadequate within the next five to fifteen years.

alternative in the Feasibility Study is System Improvements (Adaptive Migration), which includes National Marine Fisheries Service (NMFS) Biological Opinion calls for major progress reports in dam breaching. If the decision is made that dam breaching is necessary for the recovery of listed channel within the five reservoirs. Therefore, dam breaching was not considered as an alternative Breaching any of the dams would not meet the purpose of maintaining the authorized navigation of the DMMP/EIS. Section 1.6 of the DMMP/EIS addresses the relationship of the DMMP/EIS 2003, 2005, and 2008. The 2008 report must include a determination of whether or not to pursue However, this does not mean that possible dam breaching was not considered in the preparation to the Lower Snake River Juvenile Salmon Migration Feasibility Study (Feasibility Study). The the alternatives. Therefore, the DMMP/EISdid not repeat this analysis. However, the preferred modifying the dams, optimizing voluntary spill, and implementing operational modifications for Feasibility Study analyzed the impacts of breaching the four lower Snake River dams as one of decision is made and Congress authorizes dam breaching, the Corps has the responsibility to salmon stocks, the Corps will seek congressional authorization for breaching. Until such a fish transportation. Even though this alternative does not include dam breaching, the 2000 maintain the navigation in the lower Snake River as authorized by Congress.

feet, coupled with navigation channel maintenance dredging as proposed, would provide adequate Based on the Fbod Damage Assessment model, raising parts of the Lewiston levees by up to 3 flow conveyance at Lewiston through 2074. It is unlikely the Corps would need to consider raising the levees again until then.

Organization

Nez Perce Tribal Executive Committee

Comment 22

supported without maintenance dredging. Although dredging is authorized, it is not required, and It is unclear from the drast DMMP/EIS whether this inland navigation system/waterway can be so technically the Corps does not need to dredge.

The Corps was unable to identify any alternative that precluded the need for at least some dredging to maintain the navigation channel. Because the Corps has the responsibility to maintain the navigation channel, some dredging will likely be required.

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Appendix O
Responses to Comments

Nez Perce Tribal Executive Committee Comment 23

The Nez Perce Tribe strongly objects to the No Change In-Water Disposal alternative.

Response

Your comment is noted

Organization

Nez Perce Tribal Executive Committee

Comment 24

quality as for Alternative 1. In addition, the Tribe has concerns about the creation of fish habita as expræsed in the Gereral Comments section, as well as the proposed levæ raise and disposal The Nez Perce Tribe is ako opposed to Alternaive 2. We have the same concerns about water process as described below.

2.2.4.1 and throughout Section 4.1. Section 4.1 discusses the impacts of all of the alternatives on resources is presented in Appendix K, Aquatic Resources, and Appendix F, Endangered Species University of Idaho (see response to Save our Wild Salmon's Comment 19 for description of study design). His work, along with that of several other researchers is referenced in Section aquatic resources. Additional information about the effects of the proposed plan on aquatic The proposed disposal process is based on research conducted by Dr. David Bennett of the Act Compliance, for anadromous fish species.

Organization

Nez Perce Tribal Executive Committee

Comment 25

The Nez Perce Tribe objects to Alternative 3 and using upland disposal for dredged material.

Response

Your comment is noted.

Organization

Nez Perce Tribal Executive Committee

Comment 26

The Tribe is concerned about possible contaminated material being deposited at the site. There is material is continuated or unsuitable. A description of this process and an analysis of its cost no statement, however, regarding how a determination would be made of whether dredge are needed.

Response

material for in water disposal. If the results of testing identify contaminants that could be harmful See response to Save our Wild Salmon's comment 16. Appendix J to the DMMP/EIS, Dredged contaminated sediments during dredging or avoid dredging in the locations where contaminated sediments have been identified. Sediments that are contaminated will be disposed of at an Material Evaluation Framework, discusses the methodology for determining the suitability of to the river ecosystem, the Corps will initiate appropriate steps to control the spread of approved upland disposal site.

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Responses to Comments

The costs attributed to each of the alternatives include costs associated with disposal of a portion of the dredged volume, assumed to be contaminated sediments, at an upland site

Nez Perce Tribal Executive Committee

Section 2.5.4.2, Beneficial Usex. The beneficial uses described in the draft DMMP/EIS all require using dredged material for potting soil. How much of the dredged material would be suitable for a local sponsor to contribute a share of the cost. Has any rexearch been done inb the likelihood of finding such sponsors, how many would be needed, and for what period of time? Unless the sponsors actually participated, how would this alternative be affected? Since all these sponsors Section 2.5.4.2.3 Potting Soil: There is no economic analysis given to support the feasibility of required number of sponsors exists, the plan will not be able to be implemented successfully... dredged material to assure it is appropriate for this use? What is the economic impact of that potting soil given concerns about the presence of toxics? What are the plans for testing of testing? ... Section 2.5.4.2.3, Riparian Habitat Restoration: If few or none of the tentative are tentative, this scenario could occur making his use of dredged material infeasible.

requirements. If no sponsor steps forward, the Corps would dispose of the material in a beneficial manner within existing Corps authority. At present, this would likely be either in-water to create Several of these were suggested by other agencies or by the ports. The agencies and the ports were aware of the cost sharing requirements for implementing these uses. Sediment sampling shallow-water rearing habitat for fall chinook or creation of woody riparian habitat along the shoreline of the lower Snake River. See response to comment 26 above regarding testing of The beneficial uses described in the DMMP/EIS are examples of potential beneficial uses. data would be made available to the potential sponsor to ensure the sediments met their

Nez Perce Tribal Executive Committee

The drast DMMP/EIS states that a detailed monitoring plan will be presented in the Smal plan. inadequacy. Monitoring is a critical component of any plan, and it is exsential that the public Once the final plan is published, it is too late of the public to comment on its adequacy or have the opportunity to evaluate and comment on it.

Response

A monitoring program is included as Appendix M of the Final DMMP/EIS. The Corps will provide at least 30 days for public consideration of the Final DMMP/EISbefore Record of Decision is signed.

Organization

Nez Perce Tribal Executive Committee

Comment 29

Such (conflicting) statements (in 3.1.1.1 Aradromous Fish) do not provide sufficient proof that no

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Appendix O
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harm will occur as required under the Endangered Species Act. Certainly, any fish that are present will be harassed by the dredging activities in violation of the ESA

Although the Corps understands that this may still have impacts on adult Steelhead and rearing juvenile salmonids, the NMTS Biological Opinion (2000) indicates that the dredging and disposal estimates." This indicates that that only a small proportion of fall chinook may over winter every during the summer as subyearlings (Tiffan et al, 2001). According to Williams and Bjorrn 1998, year. Dredging with a clamshell during the two specified periods, and when fish are expected to overwintered and migrated seaward as yearlings in spring was small and did not effect survival Fall chinook typically have an ocean type reaning life history and typically outmigrate seaward "A small proportion of hatchery and natural subyearling fall chinook salmon residualized and be at low abundances, are acceptable methods for reducing the possible entrainment of fish. migrated early in spring 1997; however, as with fish released in 1995, the number that actions are not jeopardizing the continued existence of the ESA listed species.

Organization

Nez Perce Tribal Executive Committee

Comment 30

lower Snake River has a large sediment load that would be exacerbated by the dredging through re-suspension of sediments into the water column. Increased sediment has particularly harmful downstream and even system-wide. Even if few threatened salmonids are present at the time of The volume of relocated satiment caused by the dredging is a particular area of concern. The habitat impacts, and negatively affects all life cycles of fish. Sediment can also affect fish the schedulal dredging, it is important that they not be harmed.

Wildlife Service indicates that there is little evidence that dredging operations actually cause any of the problems for fish attributed to high turbidity (Allen and Hardy, 1980). In fact the criteria of conservative. Although turbidity may cause stress, Gregory and Northcote (1993) have shown that moderate levels of turbidity (35-150 NTU) accelerate foraging rates among juvenile chinook The reason the confluence and off channel areas need to be dredged is because finer material has sediment can have negative impacts on fish, many scientists in the region have indicated that an increased sediment load during the outmigration may serve as a benefit to migrating fish by not exceeding 5 NTUs over the background level for turbidity while dredging is relatively salmon, likely because of reduced vulnerability to predators (camouflaging effect). While been deposited there over the cobbles that currently form the river-bed. The US Fish and reducing predation.

Organization

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under direct influence of the hydro-system. This statement is misleading since it does not state the important fact that the time under the influence of the hydro-system is critical to the continuing The draft DMMP/EIS asserts that a small portion of the total life his bry of these fish is spent survival of the fish. It addition, the statement is inaccurate.

Every life stage is critical to a fish with one no more critical than the other. Attempting to ascertain how long fish are within the influence of the hydrosystem is a difficult concept.

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1997, however, as with fish released in 1995, the number that overwintered and migrated seaward ends, if it does. However, in the area of influence of the dredging, the life stage of spring/summer of hatchery and natural subyearling fall chinook salmon residualized and migrated early in spring Considering that the hydroprojects on the Srake and Columbia rivers span seven states and two subyearlings. (Tiffan et al, 2001). According to Williams and Bjornn 1998, "A small proportion outmigrate the same year, spanning approximately six months (the primary reason the Corps is trying to increase suitable habitat for this species for rearing). Snake river all chinook typically as yearlings in spring was small and did not effect survival estimates." This indicates that only a chinook is measured in typically less than a week out of a four to five year average lifespan. In have an ocean type rearing life history and typically outmigrate seaward during the summer as distributed down river, it is difficult to determine when the affect actually occurred or when it addition, fall chinook that rear in Hells Canyon and the lower Snake River, typically rear and Canadian Provinces, with hydroprojects from numerous agencies affecting how water is small proportion of fall chinook may over winter every year in the reservoirs. As part of the monitoring plan, outlined in the NMFS Biological Opinion (2000) for the DMMP, backwater habitats in the proposed dredging areas prior to dredging to determine the spatial and temporal distributions of rearing salmonids, and habitat use. In addition, the overwirtering of adult steelhead is known to occur in the project area. As a result, the Corps is using the in water work windows to attempt to dredge when abundances of these fish are the lowest, and to use one of the reasonable and prudent measures under section C.2.5, includes examining the methods that will be less likely to entrain fish.

DMMP indicates that The Corps will not be jeopardizing the continued existence of these species reason, the DMMP/EIS indicated that proposed activities may likely adversely affect most of the However, a small proportion of individuals may overwinter in the proposed work areas. For this ESA listed species in the project area. However, the NMFS Biological Opinion (2000) for the Therefore, our statement of low fish residence time in the area is accurate for most species. by dredging and disposing of material in the project area.

Organization

Vez Perce Tribal Executive Committee

Comment 32

Clearly, the impacts on habitat of dredging at the scale proposed directly contradict these goals restoration of salmon habitat, as described in the NMFS Biological Opinion on the Federal Hydropower System).

Woody Riparian Habitat Program through the Lower Snake River Compensation Plan is meant to On the contrary, creating habitat in the mainstem river from where there is currently none or poor project, the Corps has met the baseline data gathering and is now attempting to mimic the habitat habitat is consistent with the NMFS Biological Opinion (2000). This in combination with the create significant mainstem habitat improvements. Action 155 states "BPA, working with the Corps will take immediate steps to begin to address these uncertainties by collecting baseline data, improving mainstem reaches in ways that mimic the range and the diversity of historic habitat conditions as much as possible, and monitoring and evaluating the results." For this hat was in place prior to the hydrosystem completion.

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Comment 33

With respect to bull trout, the draft DMMP/EIS acknowledges that there is the potential for fish to that would cause the startle reaction has the potential to cause excess energy expenditure as well or shock wave associated with release of dredged material, as well as the sudden change in light that dredging and disposal operations may affect, but are not likelyto adversely affect bull trout startled and move away from the disturbance, thus preventing direct harm. However, the noise as loss of habitat. The Endangered Species Act prohibits harassment of this type. The findings be displaced from the dredging area. It also asserts that any bull trout in the area would be ignores the potental habitat loss and harassment described above.

clamshell during the two specified periods, and when fish are expected to be at low abundances, are acceptable methods for reducing the possible entrainment of fish (see Appendix G). The Only a small proportion of bull trout may over winter in the project vicinity. Dredging with a disposal actions would not jeopardize the continued existence of the ESA listed species (see Corps understands that this may still have impacts on bull trout. However, the dredging and Appendix G) and Section 4.3 of the DMMP/EIS.

during times of dredging, they would be using portions of the river that would not be impacted by river during the summer months. In addition, bull trout spawn in August and September, a period Reservoir may have negative impacts to some ESA-listed fish in the project areas. Although bull Evidence suggests that adfluvial (migratory) from the Tucannon River also utilize the mainstem areas where the majority of prey exists. Thus, even though bull trout may be present in the river The Corps realizes that dredging and disposal of material in the lower Snake River and McNary Snake River on a seasonal basis (November - May). These fish most likely forage in shallow trout have been documented in the lower Snake River, there is no evidence of them using the the dredging operation. The current proposed disposal of dredged material at Chief Timothy when temperatures would have exceeded 59°F even before the hydrosystem was in place. HMU has the remote chance of displacing bull trout. However, due to the distance to the 'ucannon River from this site, this possibility is very remote.

Thus, given the small likelihood that bull trout will be present and that the dredging will occur in the channel and not in the areas used by bull trout, impacts to bull trout are discountable and the not likely to adversely affect bull trout is valid.

Organization

Nez Perce Tribal Executive Committee

Comment 34

The changes in reservoir levels harm cultural resources. Although the dredging is intended to go materials could suffer long-term impacts, especially those thatare currently underwater and so disturbed any cultural properties. In addition, cultural properties at disposal sites for dredged no deeper than the natural river bottom, it is not clear that the dredgers will know they have reached that point until they dredge up river rocks, at which point they will have already difficult to identify.

specifications of dredging depths in the contract and the usual methods employed by the dredging The second paragraph of Section 4.5.1.1 of the EIS has been modified to further define Corps contractor and the Corps to monitor the resulting depth of the dredging activity.

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Snake and Columbia Rivers within the Walla Walla District, the Corps specifies one foot of depth allowable overdredge to afford the contractor some margin for error in his dredging activity. The shoreline material. Although the Corps does not impose a monetary penalty on the contractor for Corps will only pay for material that is removed down to the payline elevation. For maintenance particular location. The target depth is usually set at 15 feet below the minimum operating pool dredging, payline elevations established will not be below the surface of the original riverbed or contractors are generally very careful not to remove material below the payline, as this increases beyond the authorized 14-foot channel depth as an advanced measure allowance. Dredging of reduction in profit if the contractor removes material for which there is no compensation. The areas as well as target elevations to define the depth of required dredging. In most cases in the The Corps contract drawings and specifications identify the horizontal limits of the dredging this additional foot is allowed to increase the time between dredging activities required at a level. The Corps also establishes a payline elevation one foot below the target depth as an exceeding the depth established by the payline elevation, the contractor will experience a heir operating expenses with no offsetting compensation.

that he reached the target elevation and did not leave any high points within the dredging template between the target elevation and the payline elevation, he generally uses a depth sounder to venify or the arm of the hydraulic excavator so that the bwest part of the extended bucket is between the monument or control point. The contractor then marks the support cable of the dredge clamshell Both the Corps and the dredging contractor monitor the resulting depths of the dredging activity, During the activity, the contractor continuously monitors the depth of dredging usually target dredge elevation and the payline elevation (as described above) when the cable (or arm) contractor when he is close to the target elevation. When the contractor is satisfied that he is The Corps specifies a pre-activity survey to establish bottom elevations prior to the dredging or prism. The Corps specifies a post-activity survey, compares this information with the premark is at the water surface. Monitoring of the mark relative to the water surface tells the activity survey, and uses the results to establish the volume of material removed above the establishes the water surface elevation using survey methods based on an on-land survey by the following methods. Just prior to beginning dredging at a location, the contractor payline, and thereby the payment amount

Organization

Nez Perce Tribal Executive Committee

Comment 35

cultural resources assessments of all Alternative 4 undertakings on a caseby-case basis. The In a November 23, 2001 letter to the Nex Perce Tribe, the Corps stated their intention to do

Tribe supports this assessment process. Response

our comment is noted.

Organization

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Comment 36

plumes, re-suspension of materials, and ammonia. Turbidity is known to be harmful to all life Water quality effects of the dredging acknowledged in the draft DMMP/EIS include turbidity

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increased turbidity from dredging? Until these questionsare answered, no accurate assasmen osmoregulate even a small increase in salinity. Ammonia is toxic to aquatic organisms. Toxic of the impacts of increased turbidity from dredging can be made. Increased turbidity is also o concern since as suspended particles absorb heat resulting in increased water temperatures. compounds are also a concern. That are those levels? How do they compare to projected stages of fish. It leads to an increase insalinity, which harms freshwater biota that cannot

Because most dredging would be performed in the winter, when air and water temperatures are relatively low and solar heating is minimal, temperature impacts due to short-term turbidity increases in turbidity are expected to be localized to the immediate area of the dredging and dredged material disposal activities, and be limited to the duration of the dredging project. ncreases at the dredge site are expected to be minimal.

assessment of sediment and water quality, and a sampling analysis plan and monitoring plan will be developed for each individual dredging project. Sediments to be dredged will be sampled and nitrogen concentrations in the sediments exceed the threshold level stated in the dredged materia' analyzed for grain size distribution and selected chemical constituents. Site-specific sampling performed prior to dredging will include an analysis of ammonia in the sediment and water. If During implementation of the DMMP, the dredged material evaluation framework will guide evaluation framework, clutriate testing will be performed prior to dredging to ensure that dredging will not exceed permitted levels.

projects within in the 20-year period. If data gathered during dredging and/or disposal activity indicates that levels of turbitity, ammonia, temperature, and pH caused by the dredging are not in Results of sediment sampling will be used to develop a site-specific monitoring plan, which will compliance, the dredge operation will be curtailed until measures are taken to bring the activity process. Information gathered during each dredging activity will be applied to future dredging water. Site-specific sampling data and monitoring plans will be reviewed by appropriate water imbidity, arranonia, temperature, and pH, along with other chemical constituents if sedimentbe implemented to minimize impacts to downstream water quality. Monitoring will include quality regulatory agencies prior to dredging as part of the Clean Water Act 401 certification sampling results indicate potential for partitioning chemical constituents from sediment into into compliance.

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Comment 37

concentration is not provided in the draft DMMP/EIS. Specifically, the short and long-term sitepotential of sediment associated contaminates, the concentration of these contaminates in the Changes in oxygen concentrations at the sediment-water interface can also affect pH and the potential sediment nutrient and chemical contaminate mobilization due to changes in oxygen water disposal sites, the size of the turbidity plume, and he potential for bioaccumulation of discussed. In addition, the drast DMMP/EIS should include an analysis of the mobilization redox state of sediment associated with contaminates or nutrients. A scientific analysis of specific impacts to phytoplankton seasonal succession patterns and production should be contaminates through food web interactions.

Response

developed for each individual dredging project. Sediments to be dredged will be sampled and During implementation of the DMMP, a sampling analysis plan and monitoring plan will be

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constituents from sediments into water. Site-specific sampling data and monitoring plans will be reviewed by appropriate water quality regulatory agencies prior to dredging as part of the 401 Monitoring will include turbidity, ammonia, temperature, and pH, along with other chemical constituents if sediment sampling results indicate the potential for partitioning of chemical permitting process.

placement. Sediments will be placed at upland sites if analyses indicate that the sediment grain-size distribution or chemical composition is unsuitable for in-water placement. The Dredged Sediment sampling results will also be used to determine if sediments are suitable for in-water Material Evaluation Framework (Appendix J) will guide evaluation of sediment.

impacts to biota are expected to be limited to the immediate area of the dredge site. As part of the Because dredging operations will be monitored and managed to minimize downstream migration and after dredging occurs. Information gathered during each dredging activity will be applied to minimized. Increases in turbidity due to dredging are expected to be boalized to the immediate Reasonable and Prudent Measures set out by the National Marine Fisheries Service's Biological Opinion, the Corps is directed to assess the habitat that is currently in the reservoir both before area of the dredge site and be limited to the duration of the dredging project. Thus, short-term of sediment and associated chemical constituents, long-term impacts to biota will also be uture dredging projects within in the 20-year period.

Organization

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Comment 38

nitrogen compounds are elevated, a very small amount of phosphorus can cause algae blooms to occur. The proposed on site testing for these compounds is not adequate for avoiding impairment The proposed dredging could cause the release of ammonia (NH), which is toxic to aquatic life. DMMP/EIS that small releases of phosphorus should not pose a problem, in a situation where Both nitrate and ortho-phosphate could also be released. Despite the statement in the draft of water quality and possible harmful impacts to aquatic organisms. Response

On-site sampling and monitoring, and adaptive management of dredging and in-water placement scrivities will be performed to comply with applicable water quality regulations and the NMFS Biological Opinion (2000). NMFS has determined that these measures will minimize adverse impacts to Essential Fish Habitat and aquatic organisms.

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The existence of toxic substances in sediments is a concern. Given the past variability in he Comment 39

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DMMP/EIS gives assurance, without providing the supporting science and data, that contaminate representative of what will be found throughout future dredging activities. Furthermore, the draft detection of these chemicals it is unclear whether the 2000 sediment contiminate data is truly levels are below those that would eliminate an in-stream disposal option.

The findings presented in the DMMP/EIS are based upon multiple years of sediment sampling and analysis data. See response to Save our Wild Salmon's comment 16.

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Comment 40

Another concern of the Nez Perce Tribe is the reliability of the toxic substance data set for assessing water quality and public health impacts. Complete baselne sampling of toxic substances must be performed in any proposed dredging area before dredging occurs.

developed for each site will be reviewed by appropriate water quality regulatory agencies prior to in accordance with the dredged material evaluation framework. Sediments to be dredged will be Site-specific sediment sampling will be performed for each individual project prior to dredging, sampled and analyzed for grain size distribution and selected chemical constituents. Analytes will be selected based on site-specific characteristics. Sampling data and monitoring plans dredging as part of the 401 permitting process.

Organization

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Comment 41

Standards. An ecosystem-level analysis of the patential exposure to toxic contaminate is required associated contaminates will be consistent with the State of Washington Surface Water Quality in order to provide reasonable assurances that public health and aquatic wildlife will not be The Corps has not provided the supporting scientific evidence that the presence of sedimem negatively impacted through exposure to these contaminates during and after dredging operations.

Existing sample analyses along with additional sampling prior to dredging would fulfill regulatory requirements to protect water resources and fish and their habitat. The methodology for dredge sampling is contained in Appendix J (Dredged Material Evaluation Framework) of the contained in NMFS' Biological Opinion (2000) and the Monitoring Program (Appendices F and M). The process identified in Appendix J - Dredged Material Evaluation Framework, is, in part, organics and the level of contaminants. The framework is structured to identify sediments that DMMP/EIS. Additional information concerning monitoring requirements during dredging is based on data indicating that there is a high correlation between the proportions of fines and have the potential to contain levels of contaminants that could have adverse effects on the ecosystem and prohibit in-water disposal of those sediments.

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Comment 42

and determine what, if any, additional testing and analysis may be needed. It is clear that more The document says that the Corps plans to evaluate the issue (contaminated sediment) further testing is needed.

As noted in the response to comment 41 above, the Dredged Material Evaluation Framework will guide sediment sampling and analysis pursuant to the DMMP.

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Comment 43

should have little effect on water quality since the material to beremoved is expected to be river The draft DMMP/EIS states that "Dredging the navigation channel downstream of the dams cobbles with some larger rocks with very small amount of fines." This concluson cannot be

low probability of contaminants and dredging would cause little turbidity. However, to verify the been mostly cobbles, with little fines. Because very little fines are likely to be present, there is a Contaminants generally bind with fines. Historically sediments at these lock approaches have absence of fines and contaminants, the Corps will sample sediment and monitor water quality during dredging and disposal activities. Site-specific sampling data will be used to develop a monitoring plan that will be implemented during dredging and to determine whether or not available data. Additional site-specific data will be collected prior to each dredging project. The information presented regarding grain-size distribution in Section 3.9.2.2 is based on dredged material is suitable for in-water placement.

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Comment 44

The Corps does not adequately address hedth impacts from potential exposure to contaminates from the long-term direct, indirect, and cumulative impacts related to the proposed dredging in the drast DMMPIEIS. The absence of 2,3,7,8 TCDD, the most toxic form of dioxin, in the Corps sediment samples is insufficient reason to conclude a non-significant human health risk from organochlorines. Simply stating that these contaminates occurred in "small amounts" is insufficient evidence to conclude a FONSI to Tribal and non-Tribal community health

See response to comment 41 above. Response

Organization

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Comment 45

How did the Corps decideon the 5-NTU over background number? Is there any scientific support for that number?

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background levels when the background level is 50 NTUs or less nor have more than a 10 percent This number is based on state water quality standards. As stated in Section 3.9.1.2, water quality increase when background is more than 50 NTUs. These regulatory standards were used to determine the operational criteria described in Section 4.1.1. Also see response to comment 30 standards in Idaho and Washington specify that turbidity shall neither exceed 5 NTUs over above.

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Additionally, even "short-term" impacts can have long lasting effects on aquatic life. The draft DMMPIEIS also fails to define what is meant by "short-term," and appears to be guessing at how long it would take to accomplish the reduction.

"Short-term" refers to impacts that are limited to the duration of the dredging activity. Dredging and in-water placement activities will be performed to comply with applicable water quality regulations and the Reasonable and Prudent Measures and Terms and Conditions of the NMFS Biological Opinion (2000). NMFS has determined that these measures will minimize adverse impacts to Essential Fish Habitat.

relatively conservative. Although turbidity may cause stress, Gregory and Northcote (1993) have shown that moderate levels of turbidity (35-150 NTU) accelerate foraging rates among juverile actually cause any of the problems for fish atmbuted to high turbidity (Allen and Hardy, 1980). The criteria of not exceeding 5 NTUs over the background level for turbidity while dreaging is The US Fish and Wildlife Service indicates that there is little evidence that dredging operations chinook salmon, likely because of reduced vuherability to predators (camouflaging effect).

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Comment 47

addition, the short and long-term impacts resulting from these incidents on the plant, benthic, and cannot mitigate for impaired water quality. Detailed, procedural steps for addressing elevated turbidity and the associated mitigation measures should be included in the draft DMMPIEIS. In exceeds the state of Washington Water Quality Standard.... However, cessation of dreaging The Corps lacks an adequate emergency response plan to address situations where turbidity fish community should be more thoroughly described.

regulatory agencies (for example the Washington Department of Ecology) will determine the time penod within which modified dredging methods must meet regulatory acceptable turbidity levels. developed for each dredging project. As described in the DMMP, turbidity exceeding regulatory acceptable levels will be addressed by modifying and/or ceasing dredging practices. Appropriate Turbidity will be monitored as described in the DMMP and site-specific monitoring plan

The US Fish and Wildlife Service indicates that there is little evidence that dredging operations actually cause any of the problems for fish atmbuted to high turbidity (Allen and Hardy, 1980). The criteria of not exceeding 5 NTUs over the background level for turbidity while dredging is

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relatively conservative. Atthough turbidity may cause stress, Gregory and Northcote (1993) have shown that moderate levels of turbidity (35-150 NTU) accelerate foraging rates among juvenile chinook salmon, likely because of reduced vuherability to predators (camouflaging effect).

Fisheries Service Biological Opinion, the Corps is to assess the habitat that is currently in the Additionally, as part of the Reasonable and Prudent Measures set out by the National Marine reservoir both before and after dredging occurs. Information gathered during each dredging activity will be applied to future dredging projects within in the 20-year period.

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Comment 48

These references (studies cited in section 4.1.7 of the DMMP) however, are the work of a single author whose research is funded by the Corps. This is not adequate scientific evidence. Also, there are no references to research showing that dredging actually benefits benthic macroinvertebrates or white sturgeon.

researcher involved with many of the studies was David Bennett, Ph.D., a tenured professor at the University of Idaho. With a multiple year study design, a lead researcher who is a leading expert science behind the proposed aquatic habitat creation with dredged materials is sound. (Web et al. Numerous scientists from federal, state, university and tribal agencies set up the study design referenced in the comment. These agencies include the US Army Corps of Engineers, U.S. Fish and Wildlife Service, National Manne Fisheries Service, ESSA, Battelle-PNNL, Washington University of Washington, Oregon State University, and the Yakama Indian Nation. The lead in this field, and a study design from the region's leading experts, the Corps believes that the Department of Fisheries, Oregon Department of Fish and Wildlife, University of Idaho,

In addition, the NMFS' Biological Opinion (2000) for operation of the FCRPS indicates that the mainstem reaches in ways that minnic the range and the diversity of historic habitat conditions as much as possible, and monitoring and evaluating the results." For this project, the Corps has met Corps is supported in these actions. Action 155 states: 'BPA, working with the Corps will take the baseline data gathering through David Bennett's work and is now attempting to mirric the immediate steps to begin to address these uncertainties by collecting baseline data, improving habitat that was in place prior to the hydrosystem completion.

Regarding potential effects or benefits to macroinvertebrates and sturgeon, see response to the idaho Dept. of Fish & Game's Comment 21. According to the NMFS' Biological Opinion (2000): "One impact of this habitat removal would be the temporary loss of some potential prey species (invertebrates) and their habitat. Aquatic invertebrates, particularly dipterans, are an important food item of juvenile chinook salmon and steelhead in the Lower Snake River (Bennett and Shrier 1986, Curet 1994)."

The NMFS Biological Opinion (2000) further states:

chironomids (dipterans) are the dominant invertebrates. These invertebrates are likely to be disturbance tolerant as their habitat is constantly modified by sediment accumulation The majority of dredging would focus on navigation lanes where oligochaetes and

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and dredging. Post-dredging recolonization would likely occur rapidly through drifting dredging would focus mainly on a relatively narrow portion of the river bed (navigation lanes), the temporary loss of invertebrate habitat is unlikely to limit food production or and crawling from adjacent non-disturbed areas (e.g., Mackay 1992). Because the significantly affect foraging opportunities within the reservoirs.

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Comment 49

planting areas or to restore eroded streambanks for the remons stated above in the General sediments, as stated in the draft DMMP/EIS? We also question the use of slurry for wildije The Tribe questions the need for hydradic dredging. Can it bedone without agitating the Comments section,

monitored to ensure compliance with the Clean Water Act. The Corps' last hydraulic operation Iurbidity generated at the dredging location by hydraulic dredging operations would be in the Snake Riverdid not exceed turbidity limits in effect at that time.

for barriers or containment structures to keep the dredged material isolated from the water column long enough to settle out. Again, monitoring would be performed to ensure that turbidity created An in-water disposal of the slurry from hydraulic dredging would most likely require provisions by the disposal operation stayed within acceptable limits pursuant to the Clean Water Act.

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Comment 50

use activities upstream of the project area, barge traffic, past and future dredging activities, and In violation of NEPA, the draft DMMP/EIS fails to disclose the curent likely cumulative effects resulting form the synergistic disturbance caused by the Snake and Columbia River dams, land levee modifications.

systems in evaluating the affected environment. The DMMP/EIS cumulative effects analysis evaluated the additive and/or synergistic effect of the proposed action, when considered with past, present, and reasonably foreseeable actions (such as dams, navigation, historic dredging, etc.). The Draft DMMP/EIS did consider the historic alterations to the Snake and Columbia River See Section 4.14). In addition, this section has been expanded to include more analysis.

Also see response to Save our Wild Salmon's comment 25.

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Comment 51

The cumulative effects on public health from exposure to chemicd contaminates is also missing. rediment-associated contaminates over time in the newly created shallow water habitat, the Specifically, this cumulative analysis should examine the potental for concentraing these

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contaminates due to embankment sailure, the potential for bioaccumulation of contaminates in ocalized and downstream water quality impacts resuling from the mobilization of these ish tissue, and exposure to contaminates from recreational activities

Response

for accumulating or concentrating chemicals over time. In addition, dredged material would not by the general public. A dredged material evaluation framework will be utilized to guide the onallow the Corps and resource management agencies to assess whether there may be the potential be used on swim beaches and there is very little chance of direct contact with dredged materials monitored on a programmatic basis through the duration of the DMMP. This monitoring would going sediment analysis. Based on existing sediment data, cumulative effects associated with Sediment quality as it relates to proposed dredging and submerged habitat creation would be sediment contaminants are not expected.

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downstream of the Project Area and disposal sites from repeated major disturbance caused by Additionally, there is no mention of the cumulative effects on river morphology, both up and dredging and in-water disposal.

Response

proposed action would maintain the dimensions that were established when the reservoirs were created. Through beneficial use of dredged material the Corps would establish features lost The proposed action is no greater in scope or magnitude than past actions have been. The hrough development of dams (riparian shorelines and submerged bars)

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Another concern that isnot addressed is that the ongoing nature of the dredging may prevent the

establishment of spawning and rearing use of the Project Area.

Response

Areas where spawning is expected to occur in the lower Snake River would not be dredged under this DMMP. We have proposed to dredge areas that typically have no spawning habitat and likely never would based on flow and sediment characteristics in these locations. In addition, the creation of rearing habitat along the shorelines would serve to increase fish habitat in the reservoirs and benefit endangered species.

and Figure F-2, and size of the habitat units are in Table F-4. We agree that there are no citations for creating the disposal sites. However, the Corps has a developed disposal plan for creating ocations, slopes, depths and general schematics of each individual site, are outlined in Plate F-1 Structure of the habitat sites is indicated in Appendix F. The extent of the structures, including these habitats.

pre-inrpoundment. To define a minimum habitat acreage that would beneft juvenile salmonids, an average of the smallest sand habitat areas was calculated at 4 æres. This is below the average size for the majority of the habitats that were historically in the river. However, it was deemed a An analysis of historic sandbar habitats was performed using aerial photos of the Snake River

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minimum for salmonid habitat. The proposed acreages for habitat are outlined on page F16 and range from three to 87 acres. However, option 5 at Granite Point (3 acres) is less than the fouracre criterion and may need to be abandoned as a potential disposal site.

occur in the navigation channel. It is believed that the velocities on the navigation lock side of the river in this location are insufficient for attracting fish to spawn in these locations. Multiple years However, all dredging in the tailrace of Lower Monumental Dam covered under the DMMP will of survey occurred after the 1992 incident and no redds were ever found again downstream from the Juvenile Fish Facility and Powerhouse, however, not on the navigation lock side of the river. In 1992, eggs and alevins were discovered and some were destroyed while dredging in front of Lower Monumental Dam (Dauble et al 1998). THE NMFS Biological Opinion for the DMMP indicates, in section VII.C.1.3., the Corps will not dredge in the tailraces of the dam until redd surveys have been completed, as anticipated by the Corps (Appendix F).

Organization

Nez Perce Tribal Executive Committee

The Nez Perce Tribe may have other comments and concerns regarding the draft DMMPIEIS but had insufficient time to thoroughly assess the extensive documents.

Response

Your comment is noted. Review timestames for the Drast DMMP/EIS were consistent with the requirements of NEPA and the Council on Environmental Quality's regulations implementing NEPA. The public will have a 30-day period to consider the Final EIS and the Corps will consider all new information provided before making a final decision regarding the DMMP.

Final DMMP/EIS

DWAMP/EIS
Alta: Jack Sands, Project Ma
Vals, Army Corps of Engloce
Walls Walls District
201 North 3" Avenue
Walls Walls (Walls WA 99)62

Dear Mr. Sends:

I write on behalf of the American Waterways Operators (AWO), the sational trade association for the inland and countly happost, towhost and burgs industry, in support of the resemptions of serual designing and the maintenance of a Congressionally audiorized 14 foot channel introughout the Snake Niver navigation system.

AWO believes that deedgad materials and spoils should be disposed of in as environmentally responsible and cost effective meaner. However, the decining I restanding the disposal of disposals and cost effective meaner. However, the decining I restanding the disposal of disposal of disposal of disposal of disposal of the disposal of disposal of disposal of disposal of the disposal disposal of the disposal disposal

Story Mchabos Jerry McMabos Vice Present-Pacific Region The Styles and Tening Valency Assertation

2

Organization The American Waterways Operators, Pacific Regional Office

Comment 1

However, the decisions regarding the disposal of dredged materials and spoils should not impede or paralyze the overall objective of maintaining the navigation channel.
Response
Your conunent is noted.

Organization The American Waterways Operators, Pacific Regional Office

Comment 2

We are concerned that maintenance dredging within the district is on had pending approval of a dredging plan by NMFS.

Maintenance dredging was not on hold pending NMFS approval, but rather the completion of a programmatic plan for long-term dredged material management. NMrS has issued a Biological Opinion finding that the proposed maintenance dredging and dredged material management would not cause jeopardy to endangered fish stocks.

Organization The American Waterways Operators, Pacific Regional Office Comment 3

We strongly urge that the Corps of Engineers along with other federal agencies work together to ensure the timely resumption of necessary maintenance dredging throughout the Snake River. Absent this outcome, it is certain that navigation will be adversely affected and the regional economy will suffer.

Response

Your comment is noted.

US Army Corps of Engineers Walla Walla District

0-96



Phone (503) 289-3046, Fax 283-1479 13510 N.W. Old Germanswn Rd. Pordand, OR 97231-2775 Jerry Grossnickle, Chairman

December 21, 2001

~

Attn: Jack Sands, Project Manager U.S. Army Corps of Engineers Walls Walls District

Walla Walla, WA 99362-1876 201 North 3" Avenue

Re: Draft DMMP/EIS

Dear Mr. Sands:

We would like to nake a few comments on the recently-refeased Draft DMARP/EIS. The Columbia River Towhoat Association (CRTA) represents the fug and barge industry that uses the tarkgations system maintained by the Walla Walla Diariet. We have a very direct traite in how the Duariet maintained by the Walla Walla Diariet. We have a very direct traite in how the Duariet manages is dredging program. If the Diariet cannot dispose of the dredged mastrial, it will not be able to maintain the 14-foot channel necessary for our continued operation on the Statke River and McNary pool. As you know, all maintenance dredging within the Diariet is on hold until you can operate under an approved plan, and as things stand two, channel depths at certain locations are maintained only because reservoirs are kept above minimum operating pools. As we are all very sware, this is a situation that cannot continue indefinitely. Each new freshet brings additional sediment to the maxigation channels, and we will inevitably lose the ability to traic pool brvets high enough to maintain the channel depth.

The Process Should Not Impede Chausel Maintenance

Therefore we are very interested in your plans to deal with deadged materials. As a general azternett of our position, we would like to say that we believe that while derighed materials strond the disposed of in an error formmentally taid economically responsible maxime, the decision-making process for doing this should not impede the overall objective, which is to get the decision-making to be channed maintained.

Of course, the DMMP/EIS is an effort to overcome the current gridlock and provide a mechanism for a more efficient process in the faune. We support that effort, and we hope that the final DMMP/EIS will be approved to a timely manner.

formart Burger I form • House Tug & Bargs • Fors Martines SDN I unber Company • Shaver Transportation • Takemater Harge Lines

DMOAP/RIS Response December 21, 2001

However, we would libe to raise a few points that give us pause about whether the proposed plan will in fact provide the necessary efficiency.

Lecel Sediment Management Group

The use of a Local Sediment Manusement Group to implement the DMMP would appear to be a very sensible approach to finding consciaus among the various relevant agencies before a derelong plan is formally submitted to those agencies with review sutherity. We applied this collaborative approach, and we certainly think it should be done. We also believe that manners as the towners that a major ratio in the Corp's derelong decisions, we need to participate in the effort. We will be happy to accept your invisation to join the Group when it is extended.

The DMARP/RIS does not provide much guidance about how this process might sexually work, however, and we are concerned that the forum could possibly result in the lands of delay that we are now sexing. Will there be definite into limits set on making decisions? Would the Corps consider the recommendations of the LSMO as meety sorbied wright within the Corps' own decision-making process, with potential legal consequences under administrative procedure or other federal regulations?

1

LSMC Should Facilitate Channel Maintenance

We note that among to general objectives the LSIMG will be auted to ensure that all environmental laws and regulations will be followed, that necessary cutural resources will be protected, and that an interagency approach to dredged material management will be facilitisted, etc. But nowhere do we see any suggestion that the world for LSIMG should be done in a threft manuser. But is there a mention of what would seem to us to be the single of the control of the law of t

DMMP/EIS Response December 21, 2001 Page 3

LSMC Should Promote Cost-Lifloctive Management

'n

Scoonpibled in a consecricion manner, me are perceitables concernot that the LSMG MOCES might result in decisions that are not contesticate. There is no mention that the LSMG MOCES might result in decisions that are not contesticate. There is no mention that the LSMG is bound by cost counderations as it develops its recommendations. We think that this mandare should be explicit, even while recognizing that the LSMG will need to balance costs against its other objectives. Frankly, if some of the environmental and cultural preservation objectives are given excessive weight, the LSMG cond make channel maintenance to extremely expensive that it would arguetly cost more to maintain the channel maintenance to extremely expensive that it would arguetly cost more to maintain the channel goal of certain groups calling for Stake River dam breach, we think there is reason for concern, and reason exongit to require that the LSMG pay close attention to the cost-effectivances of their recommendations. Although the DMAP refers several times to the requisement that maintenance dredging be

Beneficial Uses

We are particularly pleased with the emphasis that Alternative 4 places on flexibity and on beneficial uses of dredged material. Clearly, some of the anishipated higher costs of handling dredged materials in new ways can be offset by using the dredged materials for bracked by using the dredged materials for bracked interpretation.

One of the many such possibilities involves the use of selected dredged materials for the creation of selditional or improved habitats that benefit endangered [55]. We think that this is an exciting idea, and we encourage the District and the ISMO to purme it seriously. Carefully considered placement of dredged materials (to create shallow-water benefits behind the dame, for example) could well result is greater habitat diversity, increased productivity and benthis yield, and could significantly benefit migrating salmonids. This is an opportunity that about the parapet. It shall and graved dredged from the navigation channels could actually be used for the benefit of migrating endangered fish, and the biological benefits could be shown to warrant the costs, then this is something we showed to it's a classic "wm/win" situation, with safe operating depths for towboas and better babitat for salmon.

One small budgecary point should be made about this and other beneficial uses that would involve seally quantifiable costs but whose benefits would not be so satily converted into dollars and cents. If dredsed materials are used for such numbers, we believe that the that O & M funds normally allocated for maintenance dredging should not be charsed, essecially when other more appropriate funding sources are available.

DMMP/EIS Response December 21, 2001 Page 4

We are pleased with the content and direction of the draft DMMD, and we support your efforts to arrive at a consentua-based approach to managing dradged materials. We use adoption of a final Pleas within a time finite that permits necessary channel nationance dradens to be stone during the 2002-2003 "San window."

ø

Columbia Towboat Association

Comment 1

materials should be disposed of in an environmentaly and economically responsible manner, the decision-making process for doing this should not impede the overdl objective, which is to get 4s a general statement of our position, we would like to say that we believe that while dredged he dredging done and channels maintained.

maintain the navigation channel and certain public facilities while also doing so in a manner that is cost-effective and environmentally acceptable. This is also Corps policy. Dredging is just one dredging done". The decision-making process is aimed at meeting the project purpose and need. method to maintain navigation, so it is not correct to state that the overall objective is "to get the Your comment is noted. As stated in Section 1.2 of the EIS, the purpose of the DMMP is to It is not the Corps' intent that this process would delay the actions necessary to maintain

Columbia Towboat Association

Comment 2

very sensible approach to finding consensus among the various relevant agencies before a dredging plan is formally submitted to those agencies with review authority. We appliand this collaborative approach, and we certainly think it should be done. We also believe that masmuch as the towboat industry has a major stake in the Corp's dredging decisions, we need to The use of a Local Sediment Management Group to implement the DMMP would appear to be a participate in the effort.

Your support for the LSMG is acknowledged. Section 1.8 has been revised to show an expanded list of participants in the LSMG including non-agency groups such as ports, Tribes, and transportation interests. Your association will be invited to join the LSMG.

Organization

Columbia Towboat Association

The DMMP/EIS does not provide much guidance about how this process might actually work, however, and we are concerned that the forum could possibly result in the kinds of delays that we are now seeing.

in performing necessary future dredging. The Corps will take the recommendations of the LSMG Corps intends to coordinate with the LSMG early enough in the plaining process to avoid delays The Corps does not articipate the LSMG forum will result in delays in making decisions. The consideration of applicable regulatory authority that some of the LSMG participants have with into consideration. However, the Corps will make the final decision regarding any future dredging or dredged material disposal activities. The Corps' decisions would reflect

Final DMMP/EIS July 2002

regard to Corps activities.

U.S. Army Corps of Engineers Walla Walla District

Appendix 0 Response to Comments

Columbia Towboat Association

Comment 4

maintenance... We do suggest that for the LSMG process to work well, each participating agency LSMG will help determine how dredging occurs and what happens to the dredged materials, but The work of the LSMG should be done in a timely marmer, nor is there a mention of what would involvement in the LSMG is for the express purpose of helping it fulfill that responsibility. The must accept that he Corps has a legal responsibility to maintain the channel, and that its seem to us to be the sine qua ron of its existence: that its function is to facilitate channel it must do as work in a manner that does not in any way impede channel maintenance.

DMMP incorporates environmental considerations when identifying disposal methods, considers dredging that is consistent with environmental regulations. The LSMG is also to ensure that the methods to reduce dredging, and maximizes the beneficial use of dredged material. Section 1.8 to structure an evaluation process that assists in development of timely and cost-effective The purpose of the LSMG is not necessarily just to facilitate channel maintenance. has been revised to more clearly describe the purpose of the LSMG.

Columbia Towboat Association

Comment 5

We are nevertheless concerned that the LSMG process might result in decisions that are not cost-

The LSMG is to consider cost-effectiveness when recommending dredging and disposal methods. These methods must also be in compliance with applicable environmental laws and regulations. The Corps, not the LSMG, will make the final decision about how to conduct the dredging and disposal activities. The decision will follow Corps policy discussed previously in response to

Also see response to comment 4 above.

comment 1.

Organization

Columbia Towboat Association

Comment 6

explore such possibilities. One of the many such possibilities involves the use of selected dredged Clearly, some of the anticipated higher costs of handling dredged materials in new ways can be offset by using dredged materials for beneficial uses, and we believe that it makes sense to fully materials for he creation of additional or improved habitats that benefit endangered fish. We think that this is an exciting idea, and we encourage the District and the LSMG to pursue it seriously

Response

Your comment is noted.

Organization

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District

Columbia Towboat Association

Comment 7

One small budgetary point should be made about this and other beneficial uses that would involve easily quantifiable costs but whose benefits would not be so easily converted into dollars and cents. If dreaged materials are used for such purposes, we believe that the O&M funds normally allocated for maintenance dreaging should not be charged, especialy when other more appropriate funding sources are available.

Your comment is noted. Section 2.5.4 of the DMMP/EIS explains the cost-sharing aspects of several of the potential beneficial uses that were documented. Also see response to EPA's comment 22. Response

Organization Columbia Towboat Association

Comment 8

We urge adoption of a final Plan within a time frame that permits necessary channel maintenance dredging to be done during the 2002-2003 "fish window".

Response
It is the intent of the Corps to complete the National Environmental Policy Act process and sign a
Record of Decision in 2002 so that the Dredged Material Management Plan can be implemented
immediately, including the decision for the proposed dredging in the winter of 2002-2003.

U.S. Army Corps of Engineers Walla Walla District

O-100

Columbia/Snake River Chaunel and Port Resolution Clarkston Chamber of Commerce

A RESOLUTION in support of maintaining a tiver channel and a river depth at each port that's satisfies for travel and loading by todey's ships and berges on the Columbia/States river system.

WHEREAS, the <u>U.S. Army Corre</u> of Engineers is committed by law to maintain an adequate river death for akinging and barging, and

WHEREAS, the Northwest and the communities along the Columbia and Stake Rivers are economically dependent upon an adequate river depth for shipping and burging; and WHEREAS, Factories, Mills, Agriculture and communities all depend upon an efficient and cost effective mode of transporting goods, and WHERELAS, the jobe and earnings associated with having a constant and dependable barging, thisping and recreation system is intricately inner wowen into the regional economy, and

WREEREAS, additional costs are incurred when tabps and burges are not filled to expandly because ports and characts are not deep enough, and

WHEREAS, additional costs are incurred when goods have to be shipped by alternative transportation means, and

nesses, and

O. NOW THEREFORE BE IT RESOLVED, that the Clarician Chamber supports proposed legitation and regulations for channel deepening projects on the Columbia River and Snake River at depths deep and regulations for classes and barres to maintain a consigir, and and, crossed to allow for today's thirs and barres to maintain a consigir, and and.

BE IT FINIALLY RESOLVED, that the Carteron Chamber supports proposed legislation and regulations for channel despending projects that are supported by studies, which show droiging, or disposal of dredge spoils will not harm salmon or stocked.

PASSED by the Chritaton Chamber of Commerce Board of Directors at a regular board meeting the

Day of Deriche ž

Clarkston Chember of Commerce Clarkston, WA

ID and Clarkston WA Chambers of Comme Submitted by the joint Natural

Appendix O
Response to Comments

Organization
Natural Res. Committee of the Lewiston ID + Clarkston WA Chambers of Commerce

Comment 1
The USACE is committed by law to maintain an adequate river depth for shipping and barging.
Response
Your comment is noted.

Organization
Natural Res. Committee of the Lewiston ID + Clarkston WA Chambers of Commerce

Comment 2

The Clarkston Chamber supports proposed legislation and regulations for channel deepening projects on the Columbia River and Snake River at depths deep enough to allow for today's ships and barges to maintain a capacity load.

Response
Your comment is noted.

Organization Natural Res. Committee of the Lewiston ID + Clarkston WA Chambers of Commerce

The Clarksion Chamber supports proposed legislation and regulations for channel deepening projects that are supported by studies, which show dredging, or disposal of dredge spoils will not harm salmon or steelhead.

Response Your comment is noted.

Final DMMP/EIS July 2002

U.S. Army Corps of Engineers Walla Walla District



Lindblad Enquedisions 1415 Westham Avanues - Sudae 700 Southe, WA. 98101-2031 Tal (206) 403-1500 Fax (206) 403-1591

14. Tal (206) 403-1500 14. Tal (206) 403-1501 14. Tal (206) 403-1501

Atte: Jack Sands, Project Manger U.S. Army Corps of Engineers Walls Walla District 201 North 3rd Avenue Walla Walls, WA 99362-1876

DACAGNETS

January 2, 2002

Dear Mr. Sande:

We would like to make a few continuents in support of the recently-vilcaed Draft DMARFELS. Limithiad deriging a limiterated in how the Dientic manages its dredging program. If the Dientic is not able to dispose of dredged material, it will not be able to majustan the 14-foot chainnel secessary for safe hungs operations on the Stake River. As things attend now, channel depths at certain locations are maintained only because reservoirs are kept above minimum operating ponis. As sediment continues to securatalise, we know that this situation controls continues indefinish.

We are therefore pleased to see that the District has developed a plan that is intended to overcome the current problems and provide a mechanism for a more effectent decision-muking process in the future. We support that effort, and we hope that the final DMMP/RIS will be approved in a timely manner.

The use of a Local Sediment Management Group (LSMG) to implement the DMAMP would appear to be a sensible approach to finding consensus among the various relevant agencies with review authority. We buildove the survey, and we nortainly blink it should be wised. We urse you up frout a fact the proceed can work, and we nortainly blink it should be wised. We urse you up frout the LSMG process on setting the designe done in a timely and contecffedive manner as well as setting it done with quarternative.

We are pleased with the emphasis that the plan places on beneficial uses of deedged masterial. One of the possibilities involves the use of deedged materials for making additional or improved fish habitat. We finink that his is an interesting feet. Creefully considered placement of deedged materials (to create shallow-wenter benches behind the dams, for example) could well result in greater habitat diversity and behind resulting results only a state of the families of the families of the families of endangered fits. It said and greed fedged from he manifestated hames sould actually be used for the families of the state of the families for saltending.

We are pleased with the contest and direction of the draft DMDRP, and we support your efforts to arrive at a consensus-based approach to managing deedgod materials. We arge adoption of a final Plan within a time frame that permits necessary channel maintenance dredging to be done during the 2002-2003 "fish window".

Ched

Jeffing C. Boyer
Director of Purchasing and Purt Operations

2.4. W. 94001

CHAMP/EIS

Attn: Jack Sands, Project Merager U.S. Army Corps of Engineers Walls Wale District 201 North 3rd Avenue Walls Wells, WA 99362-1876

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1416 Vinters America Sada 700 Seeds, WA 98101-2061 Tal (206) 382-9593 Cal Places (206) 499-9212 Fee (206) 382-9594

Fun (200) 362-959-4 Jeff C. Bayer Danier of Parking & Het Operation

Organization Lindblad Expeditions

We urge you to focus the LSMG process on getting the dredging done in a timely and cost-effective manner as well as getting it done with environmental sensitivity.

Response
Your comment is noted. Comment 1

Organization Lindblad Expeditions Comment 2

If sand and gravel dredged from the navigation channels could actually be used for the benefit of migrating endangered fish, and the biological benefits could be shown to warrant the costs, then this is something we should do.

Response Your comment is noted.

Final DMMP/EIS July 2002

O-104



December, 20, 2001

DAAMP/Ets ATTN: Jack Sends, Project M Walla Walla District 201 North 3" Average Walla Walla, WA. 99362 U.S. Army Corps of Err

Gentlemen

Plan Environmental inspectations are sensitive to the statement, Ast according plan that the continuous plan that the con We would like to make comment on the Walla Walla District's Draft Dredging Materials

Vice President / Shaver Transportation Company

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4900 N.W. Frant Avenue • Portland, OR 97216-1104 • BO. Box 10324 • Portland, Cregon 9729-6032. Office (503) 226-8950 • Ital Free (866) 228-8650 • Dispotati (503) 228-8647 • FAX (503) 274-7098

~

Organization

Shaver Transportation Company

Comment 1

disposed of in an environmentally and economically responsible manner, the decision making process of how to accomplish this should never impede the overall objective of maintaining the navigation channel. At this time... all maintenance dredging within the Walla Walla District is on hold until the Army Corps of Engineers can operate under a National Marine Fisheries As a general statement of our position, while we believe that drecking materials should be Service approved plan.

Response

Your comment is noted. Maintenance dredging was not on hold pending NMFS approval, but rather the completion of a programmatic plan for bong-term dredged material management. NMFS has issued a Biological Opinion finding that the proposed maintenance dredging and dredged material management would not cause jeopardy to endangered fish stocks.

Organization

Shaver Transportation Company

Comment 2

We would point out that if cargo volumes fall because pool depths become too stallow, it will appear that the Snake River Projects are less valuable to the region, and the five year review of a breaching determination becomes more favorable to those agencies and eco-terrorists who advocate for their removal.

The purpose and need for the DMMP include maintenance of the authorized navigation channel in the lower Snake River and McNary reservoirs. Section 1.7 of the DMMPEIS provides the economic justification for the plan. It is the Corps' objective to evaluate alternatives that are consistent with the purpose and need and in compliance with its regulations and guidance for dredging and dredged material management. U.S. Army Corps of Engineers Walla Walla District

Final DMMP/EIS July 2002

January 7, 2002

Lt. Col. Richard P. Wagenaur
Department of the Army
Walla Wall District, Corps of Engineers
ATTN: Dredged Material Management Plan
201 North Third Avenue
Walla Walla, WA 99362-1876

Re: Eigal Comments of the Save car Wild Salmon Coalition on the Dradged Material Management Plan Draft Environmental Impact Statement

Dear Lt. Col. Wagenaar:

This letter is written by the Save Our Wild Salmon condition and its undersigned member organizations (collectively, "SOS") in order to comment on the Draft Environmental Impact Statement ("DEIS") for the Dredged Material Management Plan ("DMMP") prepared by the U.S. Almy Copps of Engineers ("Corpa"). The DEIS analyzes actions to be taken by the to dredge the States and Clearwater Rivers and determines compliance with the National Environmental Policy Act ("NEPA").

SOS appreciates this opportunity to comment on the Corpa' DEIS. With a combined individual membership of 6,000,000, SOS is a coalition of more than 50 sport fishing, commercial fishing, and coaservation organizations - local, regional, and national - which sock restoration of wild submon stokes throughout the Pacific Notifiwers to heliby, saratinably harvestable numbers. SOS previously submitted comments on an environmental assessment ("EA") on a short-term dredging plan in November of 2000, a plan that the Corps never carried out to SOS! knowledge. Those comments are hereby incorporated by reference. Additionally, SOS has reviewed and supports the comments submitted by the Nez Perce Tribe on this DEIS.

SOS, like several other interested parties, bud requested an extension of the comment deadline for this DEIS. Pursuant to an agreement reached between SOS staff person Arine Westler and a member of your suaff, SOS submitted draft comments on the DEIS on the original January 7, 2002, deadline. As agreed, SOS is bareby submitting final comments on January 18, 2002. Thank you for your cooperation with regard to this extension.

General Comments

The DELS is inadequate in many respects, and the Copy' preferred alternative needlessly threatens to harm imperited salmon and steelhead inhabiting the Columbia-Saike rivers. In this document, the Copys provides four virtually identical afternatives involving substantial in river

Jenuary 7, 2002 Page 2 dredging and levee construction with various kinds of sediment disposal. Non-dredging (or returned dredging) silentuatives, which would be safes for fish, are not saniyzed or considered. SON regions that the Corps continues to move absed with a "business as usual" approach to columnia-Snake management, when retired that are required. Indeed, the Corps rates that its goal is no pursue the lowest-cost illemantive that does not violate federal environmental law. This is hardly a lofty sandard, yet one that the serious analyzed in this DEIS still fall to meet. DEIS ES-2. "Business as usual" has brought these mighty flah runs to he prehipte of extinction: clearly now and more thoughtful approaches are required. This DEIS falls to exhibit this thoughtfuless.

One of the more disturbing features of the Corps' plan is that it entirely dismisses dambreach scenarios, which would obvine the need for expensive and risky navigation decigning and selves constitution. Even though the Corps recently announced that it would pursue a non-breach management alternative in the short term, the question of breach is far from mostlyed. Not only are several judicial challenges to federal river management ongoing, but the National Marine Fithertha Service? ("1000 BiOps") acts up a review process wherein dam thereth may be required in 2003 -2005 if conditions warrant. The Corps should not preferred that this eventuality is not a real one, and should supjew the relative benefits of alternatives to continued harmful and expensive deciging. If nothing also, the Corps should not be moving aband with a major long-term project with services impacts to aquatic species until a final decision on the residue to the instance.

The DEIS Presents in Inschauste Rimse of Alternatives.

NEPA requires that an EIS contain a discussion of the "alternatives to the proposed action." AZ U.S.C. § 101(2)(Cy(ii). The discussion of the manives is at "the heart" of the NEPA process. 40 C.F.R. § 150.2.14. The CEQ regulations require the agency to "[rijgorously explorated and objectively evaluate all reasonable alternatives." 40 C.F.R. § 150.2.14(a). All faderal alternatives to recommended courses of action in any proposal which involves unreasolved conflicts concerning alternative uses of available resources." 42 U.S.C. § 4322(2)(E), [daba conflicts concerning alternative within the "teature and scope of the proposal agency. Conflicts concerning alternative within the "teature and scope of the proposal agency. California v. Block. 690 F.2d 753, 751 (9th Cir. 1982), "sufficient to permit a restorned choice." On other grounds stip non Rebentous v. Melhow Valley Citizans Council 400 U.S. 332 (1989). The failure to consider all erasonable allematives is final to the adequescy of an agency's NEPA unexamined alternative manipum League. 956 F.2d at 1519 ("The existence of a viable, but uncaramined alternative transfer an environmental impact statement inadequate.")

Moreover, NEPA requires that the EIS contain a "no action" alternative. 40 C.F.R.

January 7, 2002 Page 3 \$1502.14. The no action alternative must be "considered in detail," Alaska Wildamess

Recreation and Tourism Assi av. Moniton, 67 F.34 723 (9th Cir. 1995) gittes Bob Marshall
Alliance v. Hodel, 822 F.24 1223, 1228 (9th Cir. 1988), and it "serves as the benchmark by
which the effects of all action alternatives are measured." Id at 730. CEQ guidelines explain
both the import and the necessity of the "no action" alternative. "The regulations require the
sualysis of the an ection alternative grean if the ascent is under a court order of legislative
command to ags. This analysis provides a benchmark, enabling decisioomakers to ecupare the
suaplande of environmental effects of the action alternatives... Inclusion of such an analysis in
the EIS is necessary to inform the Congress, the public, and the President as intended by NEPA."
Regulations.") (emphasis added).

Clearly, the Corps has failed even to pay tip service to these findemental requirements of MEPA. Instead, it has presented four virtually identical alternatives that differ from each other in only the most strategial texpects. The three "schime" alternatives that differ from each other in and methods of fur-fiver deedging work and construction of identical leves stage the Sinate River. The differences between the alternatives relate exchanieds by the method of disposal derdged materials. Alternative 4 proposes in-river disposal, Alternative 3 proposes upland disposal, and Alternative 4 proposes in-river disposal, Alternative 3 proposes are alled disposal, and Alternative 4 proposes to establish a process under which disposal decisions are made on a case-by-case basis, but that will litted include at least some in-river disposal as called for in alternative 2. This is hardly a sufficient scope of different alternatives to offer a reasoned debice of options: sharm meaningful consideration of non-dredging or reduced dredging alternatives, the DERIS is study if Maved. Even more remarkably, the Corps compares these actions as a no-action alternative that is itself virtually indivinguishable to all of the others. Clearly, a "no action" alternative that is itself virtually indivinguishable to all of the others. Clearly, a "no action" alternative that involves as much "action" as this one is mixed to meet the purposes described above, over if continued deedging was truly required; which SUS disputier.

The Corps failed to evaluate non-dredging (or reduced dredging) alternatives such as lighter burges or reduced commodity shipping. (The Corps presents the Congressional subdictional configuration) to have a configuration to the case. Congress subdictions as a line reduced commodity shipping. [The Corps presents the Corps continue dredging does not mean that the Corps should ignow a non-dredging alternative, at least for comparative purposes as a "no action" alternative. See 50 C.F.R. § 1502.14(o) (agency must include "reasonable alternatives not within the justification of the lead agency"). The Corps also fails to "resultante the option of thereating the four Lower Stade Duras, which would have substantial unpacts on navigation, but would downer the reed for continual dredging, leves construction made like. Restoration of the natural river hydrology is the most affective measure to resolve the like. Restoration of sections in Lower Charite Lake area and reduce flooding risks to Lewiston without continued construction of levees. Finally, the Corps fails to consider burge instituting burge traffic to non-summer months, when river flows are higher. There is nothing imiting burge traffic to non-summer months.

See 3

See 7

January 7, 2002 Page 4 about Congress's authorization to facilitate burge traffic that necessitates year-round navigation, particularly where the costs to suknon are so high.

A further example of the DEIS' myopic focus on interaive dredging is its failure to meemingfully sederage medicals to reduce sederate input into the irvers. Whell wroll request better that be modifications would have a rebishminial efficie on reducing sediment accumulation. Id; see also redifications would have a rebishminial efficie on reducing sediment accumulation. Id; see also two first and of the form in management practices were used upstream, dredging the confuence areas of the State and Cheurener Rivers would be required less other, thus reducing the cervironmental impacts of dredging and disposal.') This option would be southerner the reducing the environmental impacts of dredging and disposal.') This shabitat and water quality elsewhere is the busin. Myuteriously, however, the Corps rejects any releasantive consideration of this approach because it is not a "complete attentive" it is not completely solve the problem. Certainly, this approach would reduce the need to dredge, or allow the Corps to dredge with less frequency. Been if the Corps is not a land management agency, it is not previously with less frequency. Been if the Corps is not a land management agency, it is not previously with less frequency. Been if the Corps is not a land management agency, it is not previously with set frequency. Stores is not almost in this concepts in the could result in the Corps to change with the Corps land introduced sediment input. Regardless, NEPA requires consideration of reasonable alternative build concepts to reduce a defined a prove colorantively with state, Edden and private land committeed high-impact dredging.

Another ellemative the Cenps should have considered is breaching Lower Gracite Dan ("LGD"). LGD was designed to work in conjunction with the planned Asolu Dan above Leviston, which would have significantly reduced the amount of sediment flowing into Lower Granite Lake. See App. A. at A-19 (Asolu Dan "would have trapped the majority of the migrating sediments on the Sane Rute") For various reasons, the Asolu Dan was never built, ignores this, and the fact that without or problem that LGD was never anginessed to handle. The Corps flooded. Induced, the Corps never discloses that it is likely that within the 20 year life gain of this problem, there is higher than three fact will be required by this continued inflow of sediment. As the DEIS recognizes, higher there will require substantial re-engineering of roads bridges and so on, and hence will be very expensive. Breaching LGD could significantly resolve this problem, at substantially lower cost. The Corps should evaluate this attentative.

See 3

The DB18 Ismorth. Discounts, or Misterresents A Wide Variety of Environmental Impacts

Inter are other opportunities that may satisfy the Corps goal of particular channel depths besides drodging, such as the idea of "sectiment pass through." The Corps should more actively seek out these kind of alternative avenues.

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Associated with Dredoing.

The fundamental purposes of NEPA are to guarantee that; (1) federal agancies this, a "hard look" at the consequences of their actions before the actions occur by examing "that the agency, in reaching its decision, will have available, and will carefully consider, deniled information concerning significant environmental impeats." Robertson, Methow Velley Chizent Council, 40 U.S. 322, 349 (1989); and (2) "the relevant information will be mede available to the larger ancience that may also play a role in both the decision-making process and decision makers and public of reasonable alternatives and environmental impacts); are also Marsh. United, 40 U.S. 360, 369 (1989) ("WEPA promotes its sweeping commitmen to profile attention on the environment and thosphere" by focusing Government and public attention on the environment effects of proposed agency action.") In abort, NEPA requires federal agencies to look before they lean.

To satisfy the requirement that it axe a 'hard look' at the environmental consequences of its actions, an agency must engage in a 'reasoned evaluation of the relevant factors' to ensure that its ultimate decision is tudy informed. Greenpease Action v. Franklin. 14 F.34 1324, 1332 890 Cir. 1922). The DEIS must be searching destiled and comprehensive'; "Effection it attended about possible 'effects and 'some risk', do not constitute a 'hard look' absent a junification for why more definitive information could not be provided;" Neighbors of Caddy Mouman, United States Forses Service, 137 F.34 1372, 1330 (9th Cir. 1998). An agency's failure to include and analyze information that is important, significant, or essential renders as EES and dequates when the imports of a proposed action. See California v. Belerade, 483 F. Supp. 465, 495 (E.D. Cal. 1980), aff catub nom. California v. Belerade, 483 F. Supp. cavironnesses (as California v. Education to the respect of a proposed action. See California v. Bottos of the space of a statements; informed decision-making, and full disclosure?".

It is hence of critical importance that an EIS be factually accurate and well supported, 40 to 150.2.4 (agencies must ensure the scientific integrity of an EIS). An agency's failure to use the most up-the most up-to-date information and tools available undermines the public's confidence in the EIS and renders it legally defective. This! Village of Adutan, Vadel, 869 F2d 1185, 1192 inclusion of erroneous information, violates the disclosure requirement's Sentile Anglosus Soc. V. Expr., 998 F.2d 699 (9th Cir. 1993) (agency cannot rely on "rate" science or "ignore requiable science or "ignore requiable scienciar or disclosure in the critician.") Science of "ignore requiable science or disclosure required in the critician posterial impacts). While "perfect" knowledge is not required, the EIS at least is required to disclose data gapes and the basis for assumptions. 40 C.F.R. § 1502.22 (agency shall make clear where information is tradequate or unavailable).

Jamuary 7, 2002 Page 6 The DEIS fulls for short of these strict standards. Instead, it presents presents presented in the DEIS fulls for short of these strict standards, and promises cavironmental beautiful that are either unsapported to actively contractical by the available science. The Columbia River lone-Tribal Fish Commission ("CRIFFC") and other cattlings have alreidy rates of them iver questions about the harms and benefits of denightig and in-river disposal, questions that have not been readwhed or ever activesed in this document. SOS believes that dendiging and in-river disposal, when the present actions ritks of family in pecific altrady greatly imperiled by past river manugement and outpening activities in the basin. These risks are simply not disclossed or

Por example, the DEIS largely discounts the impacts of the project to ESA-listed fish based on the premise that relatively few fish will be in the river during the time that deciding will actually occur. SIOS questions whether the conclusion is correct at all: WDFW studies indicate that at large proportion of juvenile fall chinook overwinter in the Saabs River reservoirs, and hence can be humsed by funding. Dredging in the past disturbed and killed listed fall chinook alevira. Even if the numbers of effected fish are low, which SOS disputes, many takenow species are already so imperiled that harm to even a few is a matter of serious concerning soorur at different times of the year. Size App. F, at FA-10 (NMFS believes that the possibility of carrainment of listed fish or fish eggs does exist, and is concerned about absence of moditioning plan to prevent such entrainment at dredging locations.)

Even if it were true that few 10th are in the river during the time when drodging is proposed, the Corps ignores several important considerations. It is not at all clear that impacts quality depratation resulting from dredging and in-river disposal may have longer tasting quality depratation resulting from dredging and in-river disposal may have longer tasting impacts on fish and fish habitat than what is achow-depod in the DEIS. For example, the DEIS impacts on fish and fish habitat than what is achow-depod in the DEIS. For example, the DEIS active. Smilesty, as CRIFFC pointed out in its comments on the EA, dredging has significant advances effects on benditio investments production that are long-institle. In fact, studies above that The DEIS ignores there impacts, which could harm imperited fish species tumporally distant fordinal species diversity in dredged even is seldom action includes a vague provision to allow of 2001; it which the Bonneville Power Administration decided to violate the requirements of provisions can have sugainformed in an imperited fish provides no what situations might constitute an "imagency," what steps could be ballow if avoid on what situations such have sugainformed and or allow of survival and substantial consisting and all the recommental consisting attention measure.

15 single constitute an "imagency," what steps could be ballow from dredging duffing migration weason. Soil strough dissures that commercial or economic harm can contitute an energiency that stone commercial or economic harm can contitute an energiency that stone or paragraph and saids the Corps to clarity this issue.

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The DEIS largely dismisses the potential for dredging to sit up toxic wastes contained in sediments. SOS believes that the nists presented could be far greater than those acknowledged by the DEIS. Pravious data has showed sediment samples contaminated with dioxin and petroleum products, substances that will be early aid in an an away other toxics into this area. Even so, this data is incomplete and out of date: the Corps has not been able to point to any more recast tests that substantiate is contention that sediment toxicity is of to concern. Similarly, the science governing thresholds of harm has advanced significantly in recent years. The Corps should provide much more detailed information, including the results of recent should provide much more detailed information, including the results of recent should provide more detailed information and the target the results of recent should provide more detailed information on how it intends to mostice the dredging to manier that toxics "hot spots" don't cause habitat degradation. Its statement that it will "visually" maperic organization dependent where sediments will be used to artempt to create shallow water habitat for salmonida.

The DEIS assumes, without any analysis or support; that in-river disposal will create effective "habitat" for salmon and other geeds. While SOS supports while salmon habitat restoration measures, we are concerned that the benefits of in-river disposal are overstated and the Lists have been ingoned. SOS is concerned that in-river disposal is being pursued primarily for economic, not environmental, reasons. Other entities have shrenly submitted actions they seriously questions the Corps' conclusion that in-river disposal is being pursued primarily seriously questions the Corps' conclusion that in-river disposal of dredged materials will provide any meaningful benefit for salmon. In-river disposal as contemplated has the potential to destroy sedimentation. The DEIS fails to address these concerns or provide any other support for the Corps' conclusion that in-river disposal with benefit side to address these concerns or provide any other support for the Corps' conclusion that in-river disposal will benefit side. Indeed, all of the evidence cited by the Corps conces from one of its own consultants. Before the Corps embarts upon anch a risky and expensive project, more evaluation on the risks and benefits should be provided.

What is even more remarkable is that the DELS propuses a 20 year multi-component dredging and disposal plan without explaining how the Corps inicads to incorporate or deal with monitoring, adoptive management, or changed circumstances. Certainly, given how little is known about the impacts to fish and fish habitst associated with this project, symptory monitoring results and changing direction as required should be included. To the extent that the "Local Sediment Management Group" could constitute such an adaptive management negationing model minimation on standards needs to be included to ensure careful security

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² Evidently, SOS is not alone in this concern. <u>See DEIS App. F. at FA-10 (NMES Areas of Concern) ("[N]o recent studies have been conducted to determine the continued and long-term viability, of these sites as beneficial to endangered sutmonids.")</u>

January 7, 2002 Page 8 of results and cautious adequation to protect natural resources. Adaptive strategies linked to monitoring could affect frequency of dredging minimize costs, and minimize ecological

The DRIB provides one very short puragraph on the environmental impacts associated with levee construction, which is whelly inndequate. The DRIS fails to discuss potential impacts to the river ecosystem associated with contrading flood waters within levees, rather than letting maintenance of these structures, which contrading a least risks associated with contraction and soft maintenance of these structures, which could be smitchance given their proximaly to the river. SCS believes that intenant to the month of could be smitchance given their proximaly to the river. Aquatic habitat when compared to negate for the levees present a boar of potential thrests to evaluate habitat when compared to negatal conditions. The Corps must do a bester job of a shemative. Moreover, the Corps abound discuss whether laves construction is even necessary in take the extensive and highly conservative flood control management avantables at the upper the Corps should as a minimum sankers whether it is necessary at all. Finally, as noted shove, the DEIS fails to disclose that it is the highly that the proposed three force increase will be necessary in addressary.

Lastly, by the Corps' own admission, the hydrologic modeling used to determine sedimensation locations, and rates in this DERS is insdequate. SEg App. A, at A-19-23. The Corps originally proposed a two-dimensional model analysis of sediment transport in the Snake and Clearwater Rivers that would have given a more accurate understanding of sedimentation issues. However, the Corps sleeted to diseard that malysis in favor of an inferior of edimensional model because of time contraints. If at A-23. Additionally, some of the standard last are over a decade old, and have not been uptated. If A-12. Additionally, some of the standardly driven by sedimens transportation issues, SOS objects to use of the concellinguistic and safes the Corps to delay implementation of a final EIS until appropriate and rejentifically sophisticated modeling can be achieved.

The DEIS' Discussion of Commissive Impacts is Inadequate

NEPA requires a circulative impacts analysis to: (1) catalogue past projects in the area; (2) assess the cumulative environmental impacts of those projects with the proposed project; and (3) analyze the additive cumulative impact of all reasonably foreseeable Federal and non-Federal actions, whether or not they have soutally been proposed. Sec Circ of Camail-By-The-Sea v.

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Additionally, there is very little dismusion of inflowing boundary condition, which is the dedging process in the sediment model and essential in evaluating the frequency of dredging, risks, undertainty in model predictions, and postable range of responses in different water years.

January 7, 2002 Page 9 United States Dept's of Transp., 123 F.3d 1142, 1160 (9th Cir. 1997) (rejecting comulative impacts analysis that referred generally to other past 'therologment projects' and did not discuss the additive impacts of foresteachle future projects); Etitiofagn v. Alexander, 772 F.2d 1225, 1243 (3.6 Cir. 1985) (agency must consider removable) foresteachle actions regardless of whether they have yet formally been proposed). Furthermore, NEPA requires that a cumulative impacts analysis provide "some quantified or detailed information" because "(without such information, neither courts nor the public... can be assured that the Forest Savice provided the hard look that it is required to provide." Quiddy Mountain, 137 F.3d at 1179; Carmel-Bv-The-Ses, 123 their cumulative impacts.

The DEIS's alender section on cumulative impacts is woefully inadequate. The DEIS ignores the sweeping range of direct and indirect harm faced by salmon migrating through this region of the Columbia and Stake Kivers, including poor water quality (including elevated ramperatures and discolved oxygen), inadequate flows, habitat degradation associated with land use, inadequate food supply, and upstream and downstream passage. Similarly, multiple industrial entities, such as the Foodsche peper mill in Lewiston, routinely emit outsies and other pollutants into these rivers. Taken pagefler, conditions in the Columbia and Stake River mainstems have brought these species to the brink of entinction. Operation of the FCRPS is a exceedingly complex process governed by multiple documents and entities, including the 2000 BiOp. At times, moreover, agencies depart from BiOp requirements in order to prevent fanancial rates.

The DEIS, however, is entirely silent on hydrosystem management and this sweeping range of harms presented to migrating salmonids. Rather, it includes only other dredging setivities, dam relacionating and "dam drawdown senatural" in its catalogue of other actions that could result in carmitative effects. The narrow range of activities considered by the Corps in the camulative effects analysis renders the document legally defective. Even within these extraordinarily circumacribed categories, however, the Corps fails to properly evaluate cumulative impacta. For example, on January 3, 2002, the Corps abmitted a new biological astesament to MMES covering its proposal to dradge and despen the 103-mile stretch of the Columbia River below Portland, Oregan. On that same day, the Corps announced that it would also prepare a supplemental EIS for the project. This lower Columbia channel deepening project has yet to more forward specifically because of the adverse impacts that it would have on salmon – including many of the same stocks impacts of dradging proposal — in the estany, it is imposable to evaluate the comulative impacts of dradging the Stake River without even mentioning the massive dredging project on the lower Columbia. The omissions of all of the other problems fish face in these rivers are as troubling as they are unlawfall.

In this document, the Corps proposes a 20 year dradging and in-river disposal plan that, SOS believes, could have significant adverse impacts to species already seriously imperiled by a

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variety of river management and habitat degrading activities. The science is quite clear that conditions need to be improved, not further degraded. Even if the rities presented by this action are small, which SOS does not agree is this case, this project could well be enother insult that, cumulatively to all the others, makes recovery of these precise even more difficult than it is today. It is for this reason that NEPA requires a ngorous smalysis of the cumulative effects of the rities and benefits of the switces all that it is the rities and benefits of the switces all the switces.

The Description and Comparison of Costs is Flawed

The DEES falls entirely to justify the most for the project. It does not disclose the current condition of the navigation channel or describe various alternatives to continued develops. For example, lighter barges may obvinte the need for some dradging, an option which is entirely ignored in this document. While the DEES describes the economic branelis of dredging, it falls to the analysize the seconomic inspact of reduced of no dredging. Remarkably, the nativities of the economic sous and benefits farm on a simplistic choice between burging as it exits today, and no berging allogether. See DEES 1-11. The Copys has falled to make the near that reducing or eliminating developing, will require the simination of all rather than some, barge traffic may be able to adopt to shallower navigation channels without under burdens, for example by using lighter burges or limiting language to certain times of year. The that choice between "business as mast" and on barging at all stows the document in flavor of dredging and presents a highly incomplete picture of alternatives.

The Preferred Alternative is Poorly Defined and Risky,

After pretenting four largely identical alternatives, discounting most of their risks, and alternatives. As noticed, the Corps chooses Alternative 4 as in preferred alternative. As noticed, All. 4 is virtually inclining historic from the other three, with the exception that it provides a family inclining inches from the other three, with the exception that it provides a family traditing indefined) mechanism for disposal options. While SOS is not accessed to a family undefined) mechanism for disposal options. While SOS is not accessed to a family of any guidance, restrictions or sincatoris disposal defined any guidance, restrictions or sincatoris disposal electromatic striction and sincatoris of disposal so opportunities arise. Under the preferred alternative, this group will make decisions on disposal so opportunities arise. Under the preferred alternative, this group will have virtually uncablined discretion on where and low be made disposal decisions and what standards should apply. It is other these factorists of the conclusion that this is highly likely to enait in high levels of in-twenting speculative that the conclusion that this is highly likely to result in high levels of in-twenties and the outcomes so speculative. SOS sugges the Corps to provide greater detail and governing standards on low disposal decisions are to be made. 5008 sugges the Corps to consult with and to include the public, including conservation, fithing and ribal groups. When making disposal decisions. Under the public, including conservation, fithing and ribal groups.

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NEPA analysis and ESA consultation.

The DEIN Missiates the Purpose and News

The DEIS defines the purpose and need for the proposed action with three components: a) to develop and evaluate "alignative programs" to maintain the navigation channel in the Lower Stake River and McNary Reservoir, b) in develop and evaluate aliennative measures to maintain the flow conveyance of Lower Granite reservoir through 2074; and c) to develop and evaluate aliennative programs of managing dredged materials. DEIS at 1-2. Leaving saids the question of whether or not the Corps has succeeded in presenting programs that are "alternative" to one another in any meaningful way, \$0.5 believes that the entire purpose and need is far too searcowiry defined.

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As noted above, Congressional authorization to maintain a navigation channel to a certain aware it is under multiple legal obligations to manage the river in certain ways, some of which may conflict with one mother. The ESA's mandate that the Corps also no action that will jeepardize listed species or adversely modify critical habitat is manahaguous, and in SOS's view, requires that the Corps pursue dam breach accentates that the brings and and SOS's view DEEs should be formed more broadly our anaporation of products from Lewistan downstrain. Berga navigation is not an and from Lowiston. There are multiple different ways to transport products that don't require the full navigation channel, or even any burge navigation at all. This DEEs should evaluate the relitive medits, costs, and environmental risks presented by different (REES) should evaluate the relative medits, costs, and environmental risks presented by different complete pricture of the simulation estimus, inclinding barge navigation, so that Congress and the public can have a

Dam Management To Protect Fish and Drodging Are Inserticably Connected Actions and Hence Should Be Considered in a Single E1S.

This DEIS, at its heart, involves management of the Lower State River to allow barge navigation. According to the DEIS, drodging and levee construction are the only available alternatives to address the problems of sediment build up associated with river management and dam operations. The choice presented, however, is a false one. As discussed above, drodging would not be required if choice presented, however, is a false one. As discussed above, drodging would not be required if dam breach was considered as an alternative. The DEIS assumes that dam breach is not an option and hence fails to consider it. But the document on which this assumption is premarably predicated, the December 1999 Draft Lower State Salmon Migration the environmental impact sand economic costs associated with the diging. Both the Dradging DEIS and the Migration DEIS involve the exact same issue; bow to manage the Lower State River dams in such a way to comply with various laws and to minimize impacts to impactled

James 7, 2002 Page 12 salmonick. However, the Corps has chosen to divorce dem masagement from dredging and contemplate them in two separate NEPA document, each of which ignores the issues raised in the other. This is contrary to common sense and violates NEPA.

The law is quite clear that actions which are connected or currellaive to one another must be considered in the same NEPA document. See 40 C.F.R. § 1508.25. CEQ regulations dictate that "connected it the same largest statement. Actions are connected if they." (I) assumable discussed in the same impact statement. Actions are impact statement; (II) cannot or will not proceed unless other actions which may require environmental impact statement; (II) cannot or will not proceed unless other actions in taken previously or far their justification. If at \$1.509.25(a)(1); see able id at \$1.508.25(a)(2) ("cumulative implication than viewed with other proposed actions have connectatively significant According to the Ninh Circuit, "connected or cumulative actions needs be considered together to an insignificant earlier may be with connected or cumulative actions needs be considered together to an insignificant earlier may be also be discussed into making actions. Weldand Action Mercerk v. U.S. Connected or cumulative actions needs be considered together to an insignificant earlier development into collectively have a substantial impact." Celling I Domas v. Petrana. 733 P. 2d at 738 [Forest Service violated NEPA by contemplaining "independent stilly" less to determine whether an agency in required to consider mathiple actions without the road, and tender also in separary NETA document. The Number vales, and hence, the two vers required to be considered together. See also Savat the Yask Committeer v. Block, 800 P. 2d 1000 (9th Cr. 1993), by contrast, the Court found that the agency was not required to consider unstating an supportation program and flow insprovements in same EIS because each one could continue

This sinustion clearly raises as serve of connected actions. Ontoling dam masagement as governed by the Migration DEIS is inextricably related to the diredging. "habitat creation" and management of the diredging contemplated in the Dredging DEIS. Indeed, without continued diredging and management of the dams as discussed in the Migration DEIS would become virtually impossible. Continued sediment build up would prevent navigation and dustically after flow patterns like labitat "creation." Smilarly, the designing and levoe construction, as well as militarion measures like labitat "creation," would not be required if the dams were breached. Clearly, dam misugement "cannot or will not proceed unless other actions fearned, and expending har taken, larger action [namely, dam management] and depending on the larger action for larger larger larger larger action for larger larger larger larger action for larger larger larger larger action for larger larg

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has violated NEPA by considering them separately,

raised in the dradging DEIS. While the Migration DEIS purport to fully oralizate the costs and benefits of dain breaching restrict to other dam management sonarios, if fulls to mention the costs and environmental risks presented by continued organize dradging scription proquired by a no-breach decision. This is two despite extrastive discussion of tavigation issues as well as the antiformental risks presented by sedimentation, tavigation and toxics. See E.g., Migration DEIS at 4.2-3 (erosion and sedimentation); 2-18 (navigation), 4.4-14 (sediment and tavidity); Ch. 4.9 (discussing transportation and navigation without mention of dradging); 5.13-6 (no mention of dredging in employment section). In fact, the Corps goes so the st to raise numerous concerns about sedimentation/turbidity issues associated with dam breach, but then ignores the state issues altogether insofar as they relate to the directing that is necessary in the absence of breach, esting 43.2 through 6. Given the risks and coast associated with perpetual, ongoing described above, it is shuming that the Migration DEIS prehead that they do not exist.

Although the comment period on the Migration DEIS persend and the Corps has announced a preferred alternate, is shill reader it is supportant issue in the final EIS will reader it What is even more remarkable is that the Migration DEIS it <u>goally silent</u> on the tseues fital. Accordingly, SOS requests that the Corps take the time to address the costs and environmental risks associated with designing in the final Migration DEIS before a ROD finalized.

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The Corps Has Feiled to Comply With 8 404 of the Clean Water Act.

biological integrity of the Nation's watern." 33 U.S.C. § 1231(a). One mechanism through which it serves these ends is by prohibiting the diocharge of pollutant into navigable waters which it serves these ends is by prohibiting the diocharge of pollutant into navigable waters without a & ded permit of 14.8.C. § 134(a). Nowhere in the DEIS does the Corps discuss its intention to obtain a section 444 permit for the proposed dradging of levee construction discussed in this DEIS. SOS believes that such a permit is required. To comply with CWA § 404 for these activities, however, the Corps must coadout a "public interest review" in which, among other thing." The doction whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts of the proposed activity and its intereded use on the public interest." 33 C.F.R. § 230A(50,1). This public interest review also requires that "[i]be sensefits which reasonably may be expected to accurate from the proposal must be balanced against its reasonably corresceade derintenen." If Thus, just like NEPA, the CWA requires the Corps those projects may proceed. The Corps' failure to do so in this EIS therefore not only violutes never never the CWA. See Sierra Club v. Sieger, 693 F.24 957, 933 (7 C.T. 1933) (Imaing The Corps' flawed NEPA analysis also infects its responsibilities to comply with the Clean Water Act ("CWA"). Like NEPA, the CWA requires that, before proceeding with projects affecting water of the United States, the Corps conduct an analysis of the project's potential impacts. The CWA seeks to "retore and maintain the chamical, physical, and

that Cops! "Mawoof" NEPA analysis "tained the [Corps] permit decision-making process" by preventing the "anality of gill [relevan] factors" required by the public interest veriew). Van Abbena v. Fornell, 807 F.24 633, 643 (7° Cir. 1986) (Cops) reliance upon Night analysis's inscrume economic information readered CWA public interest review similarly invalid). Only with knowledge in hand can the agency determine what best serves the public interest. This EIS does precisely the opposite.

18 in CWA regulations, the Corps must evaluate timped pursuant to RPA's § 404(b/1) guidelines, 40. CRA regulations, the Corps must evaluate timped pursuant to RPA's § 404(b/1) guidelines, 40. CR. § 523. These guidelines require, among many other things, the Corps to determine the last action will not "consultate or contribute to against an elegated for a factor of the United States," 40 CR's § 520.10(c). This fading must be "based upon factual elecamination, evaluations, and tests." Id. Because its NEPA analysis fails to adequately consider many of the swahnston of cumulative impacts), 808 is deeply concerned that the Corps § 404(b/1) analysis will suffer from the same deficiencies. See Figuria of the Earth v. Hall, 695 is 80p., 904, 946 (W.D. Wash. 1988) (gaps in data and reionific uncertainty in Corps 'NEPA analysis faulty undermined in conclusion under § 404(c) guidelines that project would not "cause significant degradation". However, because the Corps has not made this important analysis available for Regardless of the flaws in its NEPA analysis (a Corps to conduct in § 404(b)(1) analysis to include the flaws in its NEPA analysis. So's urges the Corps to conduct in § 404(b)(1) decisionmaker may evaluate the Corps' proposal based on a fail and accurate accounting of its impacts. 8 8

Endangered Species Act Issues

SOS appreciates the inclusion of the Biological Assessment ("BA") with the DEIS, but provide an adoquate basis for meaningful consultation with the IMMES, violating the ESA and its implementing regulations. SOS will closely scrutinize the resulting biological opinion ("BIOP") to ensure that it is consistent with existing documentation. and the best science.

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⁴ The Corps may not issue any permit for a discharge that does not comply with these guidelines. 33 C.F.R. § 320.4(a.K.l.); Erisads of the Barth v. Hing., 800 F.M. 822, 830 (9° Cir. 1986) ("The Section 404 permit process is governed simultaneously by Corps regulations, 33 C.F.R. Parts 320-20, and by 18th A. guidelines, 40 C.F.R. Part 230. Both sets of rules must be observed."). Thus, its duty to comply with the 404(0)[1] guidelines is distinct from the Corps' public interest review under 33 U.S.C. § 230.

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Section 7 of the ESA requires any federal agency undertaking an action that may affect multiple species is the three operation with NMES. 16 U.S.C. § 1536(a)(2). The presence of multiple species inted under the ESA has necessitated the initiation of tennulation through the reparation of the BA that accompanies this DEIS. The ESA mundates that the BA "that short was the PRA" in the BA that accompanies this DEIS. The ESA mundates that the BA "that proposed critical habitat and determine whether any such species or habitat are likely to be stored or the BA that would undertake the SEA" is also 10 U.S.C. § 1536(c). This proposed action would undoubtedly affect numerous listed ashmoulds, which triggers formal

A BA provides the foundation for consultation and about supply NMFS with eaough background data to enable NMFS to use the information is the BA, together with other relevant information, to formulate a BiOp on the proposed agency action. Unformately, the poor stably paid of the actions proposed, the conclusiony statements, and lade of a cumulative effects inquiry in this BA fall far short of the ESA is requirements for biological assessments. The BA is expuncially one of the DEIS, with no additional analysis of the potential impacts to listed seamonts. Unfortunately, just like the curroxy analysis of the potential impacts to the

The BA roughly sketches some effects of the proposed project on listed salmonids, but fails to discuss any detail on those effects or their long-term implications. In addition, the baseline of the current habitat for listed salmonids in the project area is not discussed. A though discussion of the impacts of current innagement practices is a necessary and useful sarting point for an adequate BA. That discussion is missing from the BA but, standing alone, would not satisfy the more crucial requirement that has As "washase the potential effects of the must failly evaluate all of the effects of current management and the potential effects of the alternative action.

In addition to these procedural flaws, the DEIS and the BA fail to fully address the forgandation of critical habitat associated with dredging. Section 7 of the ESA prohibits any forgant from that vall—Tesuit in the destruction or adverse modification of "critical habitat. The portion of the Snake and Columbis Rivers affected by this project have been designated as critical habitat for several ESA—Listed salmonids. The BA largely disnisses critical habitat considerations, however, simply because listed species will (for the most path) not be present in the area during dredging. See App. F. F.34. The presence of listed species, however, is hardly the only relevant factor to consider in a critical habitat analysis. NMFS repulsions

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findeed, as described above, it is not even the most relevant consideration for desemining effects to the listed species themselves. There are any number of ways in which the dredging will directly and indirectly impact fish that are ignored in this section.

January 7, 2002 Page 16 require that this suntyris focus on whether the activity will result in "s direct or indirect alteration that appreciably diminishes the value of the entiral babins for both the survival and recovery of a listed process." SO C.P.R. § 402.02. A proper malysis must focus on the value of the critical babins for future use in the necovery of the species, soc—as the BA does here—solely on place. Further, there is a dearth of malysis on the over-wintering of sub-yearing fall chinook in the imposed area or fall chinook spowning in the infinees that will be fredged. Similarly, the BA dismisses the imposed sof two contamination to the critical babins by asserting dust it will be stepped as steps to that settlements when they are visually confaminated." Id, at F.33. The Corps does not confaminate this visual survey or what standards will apply.

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Sec 18

Consistency with Other Salmon Rozovery Documents

When the Corps' DEIS is viewed in the consent of recent documents that serve as a basis for salmon recovery in the Columbia Basis, it becomes apparent that this document minimizes or ignores much of the guidance outlined in these documents. This is especially clear in respect to the Federal Centure "document, Leanervalids of Columbia Basis. Salmen Recovery Strategy.

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The overall premise of the Salman Recovery Strategy states that "[i] is time for citizena, governments, and special interests in the Columbia River Besin to collectively take immediate and estatiable actions to subuild the health of the Basia" (Exceptive Surmary, 12). The DEIS ignores the issue of ensitiability. This is particularly true in respect to the Corps' plan for the habitat.

"Baceficial Use" of dredged materials for the purpose of creation of shallow water rearing

The Salmon Recovery Strategy emphasizes that there is a great used for information concerning mainstein habitat projects. Included is the need to identify responses of habitat improvements in large rivers-especially the Columbia River Basin-to deformine the relationship of the size of improvement to the size of improvement to the size of improvement to the size of improvement (Salmon Recover Strategy, evaluation action phase there informational needs the plan calls for "Aganous monitoring and relationships." (Vol. II, 21) The existence of such incertainties does not accuse poorly assessed relationships." (Vol. II, 21) The existence of such incertainties does not accuse poorly assessed impostance of accountability, monitoring, and evaluation." (Ex. Summary, 5).

See 20 The proposed action for "beneficial use" as described in the DEIS does not incorporate this form of monitoring and evaluation with respect to the impact of the proposed project upon

f is any event, the BA focuses exclusively on whether or not fith will be disturbed by "dradged material removal action." Id. at F.34. The Copys does not inquire whether the habitat will be degraded by disposal of dredging spoils in the river.

January 7, 2002 Page 17 salmon and the environment. The Corps takes cars to address monitoring of the engineering integrity of this project but largely ignores scientific credibility by foregoing actions to initiate the rigorous monitoring and interagency approach as mandated by the Rocovery Strategy.

The Corps continues to insist on proceeding with a large-scale habitat project in an area of special informational needs, and many unknowns, without utilizing a scientifically credible process. The result of not having a scientifically rigorous, coordinated effort is clearly described in the Strategy. This lack of adherence "will not only render any monitoring program useless, but will also undercut the importance of the management scitous themselves." (Vol. 1, 55)

Conclusion

The Corps' recent amouncement that it will not purue breaching the lower Stake dams at this time did not contamplate many of the issues raised in this DEES: the monetary expense and environmental consequences of continually maintaining a navigation channel, over higher levest, and the fact that LIOD is not engineered to accumundate the influx of sediment without Asolin Dem. While this DEES and decision process presents an opportunity for consideration of dam breach or other non-deedging alternatives, the Corps failed to take the opportunity. Instead, program to continue a legally flavared and factually maniported justification for an expensive, long-term program to continue a "business as unaul" approach to inversangement, fursted of moving closer to a normative, natural river ecosystem, as called for in the 2000 BiOp, the Corps countinues to propose actions that degrade it. SOS wayes the Corps to take a broader view of its propertly disclosing the full costs, ecological and monetary, of its proposed action.

If you have any questions about these comments, or would like to discuss any matter discussed in these comments, please contact Jan Hasselman, staff counsel with National Wildlife Federation, at (206) 285-8707 ext. 105.

Sincerely,

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Pat Ford, Save Our Wild Salmon
Jon Hasselman, National Wildlife Federation
Bill Sedivy, Idaho Rivers United
Rob Masonix, American Riven
Left Cutrix, Trout Unlimited
Bill Arthur, Sterar Club
Lovenia Warren, Salimon for All
Glen Spain, Pacific Coast Federation of Fishermen's Associations

tautry 7, 2002 Lee 18 and Institute for Fisheries Reson Shawn Cantrell, Friends of the Earth



Field officer.

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November 13, 2000

Walls Walls District

Environmental Compliance Section Corps of Engineers

Walla Walla, Washington 99362-1876 201 N. Third Ave.

Dear Ms. Simmons

undersigned member organizations in order to comment on the Environmental released to the public October 13, 2000. The EA analyzes actions to be taken This letter is written by the Save Our Wild Salmon coalition (SOS) and its Assessment: Interim Lower Saake, Clearwater, and Mid-Columbia Rivers Dredging (EA) prepared by the US Army Corps of Engineers (Corps) and by the Corps to dredge the Snake and Clearwater Rivers and determines compliance with the National Environmental Policy Act (NEPA).

more than 50 sport fishing, commercial fishing, and conservation organizations River Inter-tribal Fish Commission and the Nez Perce Inbe are also on the EA With a combined individual membership of 6,000,000, SOS is a coalition of throughout the Pacific Northwest to sustainably harvestable numbers. SOS appreciates this opportunity to comment on the Corps' EA. The Columbia -local, regional, and national - which seek restoration of salmon stocks submitting SOS hereby incorporates those commens by reference..

Introduction

home. At this point, the determination that these dams will remain in place for hastly written EA and Biological Assessment (BA) will not suffice to protect River require a wholly different approach to this process. The science clearly the long-term has yet to be made. The National Marine Fisheries Service conclude that the dams remain on a probationary status, waiting to determine whether other measures can recover endangered salmon. In the meantime, a Operation of the Federal Columbia River Power System. That analysis may restore the endangered salmonids that call the Snake and Clearwater Rivers. supports that removal of these four dams is a necessary part of any plan to The science and politics that surround these four dams on the lower Snake (NMFS) is in the process of completing its Biological Opinion for the these fish from the affects of dredging.

The Corps is suthorized to provide for navigation on the Snake River, the purpose of most of this that the channel is currently at ten feet, with fourteen feet being optimal for navigation. There is delay any dredging while the future of the four dams on the lower Snake River is debared, as this Simply because a project. That purpose was supported by no justification for this project in the EA. It does state no identification or discussion of what impacts, if any, the current depth has on barge traffic, what difficulties this may cause, nor my economic effects to upstream ports. Simply because fourteen foot channel is optimal does not mean that it is necessary. It would seem prudent to proposal may cause unnecessary harm to listed salmonids

The Corps has chosen its preferred alternative in this EA hazed in large measure on cost. Other disposal methods were desmed too costly, given the Cosps limited burget. The Corps can not discount certain options based solely on cost; if two alternatives have equal costs and benefits, only then can one be chosen based on cost alone. The EA discounts option (c) as being too costly, without considering whether or not it would be more beneficial to listed salmonids.

(Appendix I, sect. 3.8.5). The costs of dradging must be included in that EIS process, and related to dam retention, was included in the maintenance costs in the Corps' Draft Lower Snake River, Juverale Salmon Migration Fessibility Report Environmental Impact Statement (Draft it is unclear whether the cost of dredging the Snake and Clearwater Rivers, which is no doubt those costs must be the same as those estimated in this E.A. Specific comments relating to the EA, Biological Assessment (BA), and water quality are below.

The Dredging Proposal Requires Preparation Of An ELS

Corps' deedging proposal, which involves, among other things: (1) moving more than 500,000 cubic yards of dredge material; (2) dredging over a 2-year time frame; and (3) the federal expenditure of approximately \$1.8 million cortainly qualifies as such an action. significantly affecting the quality of the human environment." 42 U.S.C. § 4332(2)(C). The The National Environmental Policy Act ("NEPA") requires federal agencies to prepare an environmental impact statement ("EIS") for any "proposals for ... major Federal actions

a precedent for future actions with significant impacts; and (4) whether the action threatens a violation of federal, state, or local survivonmental law. 40 C.F.R. § 1508.27. An analysis of these factors demonstrates that an EIS must be prepared for dredging plan because: (1) the proposal proposed action will be highly controvertial; (3) the degree to which the proposed action may set the basin; (2) the effects of dredging and associated habitat alterations on salmon populations has The Council on Environmental Quality's ("CEQ") NEPA regulations provide that the following factors must be considered when determining whether a federal action will significantly impact the environment: (1) the uniqueness of the affected area or resource; (2) the likelihood that the will affect imperified salmon and steelhead in one of the most heavily impacted aftered rivers in

In the Corps' analysis of the socio-economic effects of the proposed dredging, there is no analysis of the costs to the fishing communities for going ahead with this project. Section 4.g at p.51. A complete analysis would include affects to both local sportfishing and down river commercial fishing communities.

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been the subject of sustained controversy in the scientific community, in the courts, and in the media for many years; (3) the proposal is very likely to set a precedent for the final shape of the long-term plain; and (4) the proposal clearly threatens to violate federal environmental law, such as the Endangeried Species Act ("ESA"), and the Clean Water Act ("CWA"), discussed in more detail below. Indeed, the proposal for directing in very timilar to actions considered and that would be taken as part of the long-term dredged material management plan. Under these circumstances, the Corps must prepare a full-blown PIS before it can proceed with this project.

NEPA Prohibits the Dredging while Completing EIS

The Corps has explicitly recognized that maintenance dredging in the Columbia/Snake River ystem is a major federal action for which an EIS must be prepared and have actually been verting on an EIS for that action. Rather than being independent from the plan being assessed in the EIS, however, the Corps has prepared an EA whose are purpose is to allow the Corps to complete the very activity that it is analyzing in the EIS pending the completion of that EIS. While perhaps convenient for the Corps, moving forward with just such an interim proposal is anticipated and explicitly barred by NEPA's implementing regulations, which provide that:

- (c) While work on a required environmental impact statement is in progress and the action is not covered by an existing program statement, agencies shall not undertake in the interim any major Federal action covered by the program which may significantly affect the quality of the human environment unless such action:
- (1) Is justified independently of the program;
- (2) Is itself accompanied by an adequate environmental impact statement
- (3) Will not prejudice the ultimate decision on the program. Interim action prejudices the ultimate decision on the program when it tends to determine subsequent development or limit alternatives.

40 C.F.R. § 1506.1(c). The proposal analyzed in the EA violates the plain language of these regulations. As discussed above, the dredging is a major federal action significantly affecting the human environment. Indeed, there is nothing to distinguish this project from the activities evaluated in the EIS, and thus there can be no basis to conclude that this project is any less a "major federal action significantly affecting the quality of the human environment" than the activities evaluated in the EIS, It therefore falls within the purview of 40 C.F.R. § 1506.1(c). The EA fails each of the tests required by this regulation, the failure of any one of which renders proceeding with the action without an EIS lilegal.

First, the "integrim" diredging proposal is not justified independently of the EIS. The EA admits, as it must, that the project will be covered by the final maintenance deedging EIS. As the Corps and mix throughout the EA, this project "is the latest in a continuing series of dredging operations to maintain navigation, port, and recreational use of the lower Stanke, Caravanar, and Columbia Rivers." Section 4.4.5 at p.46. The project has been proposed only "[b]ecause the Corps needs to dredge prior 10.2001 to meet its obligations for navigation channel maintenance, recreation, and wildlife management" and the EIS will not be completed in time. Section 2 at p.3.

That the proposal evaluated in the EA does not have an independent justification is most obvious from the fact that it is merely a modified version of what is likely to be the preferred alternative in the EIS. Indeed, the BA and the long-term EIS stem from precisely the same state states and strive but the Death long precisely the same ends, albeit for different periods of time – both are similar in purpose, need, and stope. For example, Alternative 2 of the Draft long-term EIS is identical to that action proposed here. Sag Draft EIS at Table 2-4. Even Alternative 4, the Draft EIS* Preferred Alternative, "parallel the EA in that it includes substantially identical elements of the "Preferred Alternative," parallel the EA in that it includes substantially identical elements of the proposal evaluated in the EA. See Draft EIS at 2-47 (describing in-water disposal to create instillations for the adoption of the interior proposal than for the nearly identical preferred alternative likely to be offered by the long-term EIS. Rather than being "justified independently of the projector." Indeed, given that the actions provided for in the EA every similar to those outlined for the long-term dredging plan, it is likely that the actions proposed by the EA would, in effect, be the first year's implementation of the long-term dredging plan.

Second, and most obviously, the EA runs afoul of 40 C.F. R. § 1506.1(c)(2) because the Corps has not prepared an EIS for the interim diredging. This NEPA regulation makes absolutely clear that the mere fact that an interim proposal will be superteded by a more long-sam action in the future does not excuse defendants from preparing a full EIS when, as is true here, the interim proposal is a major federal action in its own right.

Third, the Corps' EA violates 40 C.F.R. § 1506.1(c)(3) because the implementation of the interim proposal will prejudice the ultimate decision on the program by trading to determine the development and outcome of the long-term plan. As discussed above, the proposed dredging mounts to little more than the first year of the long-term plan. Because the long-term plan contains many of the elements contained in the proposal analyzed in the EA; it is difficult to see used in the long-term plan.

In sum, the Corps' proposal amounts to the premature implementation of alternatives that have not yet been fully disclosed and analyzed through NEPA's EIS process. NEPA's regulations, and the policy underlying the statute itself, were intended to prevent such actions from moving forward before they were fully analyzed in an EIS. SOS urges the agency to heid the policy, purpose, and plain language of the statute and prepare an EIS for the interim dredging proposal.

The EA Does Not Present Sufficient Information Or Evidence To Determine Whether The Project Will "Significantly Affect The Quality Of The Human Environment." The fundamental purposes of NEPA, are to guarantee that: (1) federal agencies take a "hard look" at the consequences of their actions before the actions occur by ensuring "that the agency, in reaching its decision, will have available, and will carefully consider, detailed information concerning significant environmental impacte," Robertson, V. Methow Valley Citizans Council 490 U.S. 332, 349 (1989); and (2) "the relevant information will be made available to the larger audience that may also play a role in both the decisionmaking process and the implementation of

lhat decision," 14 at 349. In short, NEPA requires foldrial agencies to look before they leap, Unfortunately, the EA fails to serve this critical function.

the public or the agency to adoquately assess the impacts of a proposed action. See California v. Bergland, 483 F. Supp. 465, 495 (E.D. Cal. 1980), aff d sub non. California v. Block, 690 F.2d 753 (9th Cir. 1982) (by failing to disclose key data, "the Forest Service effectively undercut the renders an ElS or an EA inadoquate - for, without such detailed information, there is no way for An agency's failure to include and analyze information that is important, significant, or essential environmental statements: informed decisionmaking, and full disclosure"). twin goals of

A complete accounting of the water quality impacts resulting from the removal and displacement herbicides, pesticides and diown; some heavy metals and the sediments themselves. Stirring up these pollutants will influence certain water quality aminutes such as the chemistry and clarity, with subsequent impacts to aquatic organisms. Specifically, this action will impact water quality comprehensive analysis of these potential water quality impacts must be conducted before the known to contain several types of pollutants including high nument levels; small amounts of of sediment during dredging and disposal is not presented in the EA. The dredge material is by increasing nuclidity, and potentially altering dissolved oxygen, temperature and p.H. A. Corps can conclude that water quality impacts will not occur.

See 16. 17,37 The Corp states that "the proposed action is not likely to adversely affect individuals of the listed River has a large acdument load that would be exacteredted by the dredging through resuspension of sediments into the water column. Increased sediment has particularly harmful habitat impacts, 2000:2001 (Section 2 at p.5)), caused by the dredging is of particular concern. The lower Snake lish. Fine sediment causes gill irritation and membolic stress, and can reduce the growth rate of salmon stocks" without providing clear and scientifically supported criteria. Section 404(6/11) Evaluation, at p.11. The volume of relocated sediment (approximately 244,269 cubic yards in and negatively affects all life cycles of fish. Sediment deposition sauses an increase in cobble embeddedeness, which degrades habitat quality. Sediment is also harmful to fry and juvenile uveniles. Sediment can also affect fish downstream and even system-wide.

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not be harmed. Disturbances to ESA listed species and habitat alternion resulting from the actual and fry life stages from the period of December 15, 2000 through March 1, 2001. Even if few threatened salmonids are present at the time of the scheduled decigning, it is important that they dredging would be in violation of ESA, which prohibits barasanent of ESA listed species and destruction of critical habitat. Furthermore, if the dredging activities cominue into late March, The Corps has not provided dats on the presence of full chinook and steethead adult, juvenile, potential impacts to out migrants of salmon and steelbead may occur.

discussed in the EA to the public, making it impossible for anyone, including the Corps, to draw SOS believes that these deficiencies present an insecurate picture of the impacts of the proposal any reasoned conclusions about the environmental impacts of the proposal, much less to decide conclusory statements and unsupported assertions to satisfyNEPA's "hard look" requirement. whether it will significantly affect the human environment and will require preparation of an The Corps may not, as it has done throughout this EA, ignore relevant studies and rely upon

The EA Fails To Analyze the Cumulative Impacts of Other Actions That Affect Snake River Salmon And Steelbead. Perhaps the most glaring omission in the EA is the Corps' wholesale failure to consider cumulative impacts in its analysis. The short, 2-paragraph discussion of cumulative impacts hardly salisfies the duty that the Corps take a hard look at the impacts of the interim dredging 26 & 27 See 23.

when sided to other past, present, and reasonably foresecable future actions regardless of proposal. See Section 4, h at p.53. In order to ensure that the combined effects of separate activities do not escape consideration, NEPA requires that federal agencies consider cumulative the impact on the environment which results from the incremental impact of the action what agency (Federal or non-Federal) or person undertakes such other actions. environmental impacts in their environmental analyses. A cumulative impact is:

Cumulative impacts can tesult from individually minor but collectively significant

actions taking place over a period of time. 40 C.F.R. § 1508.7

similarities between this project and the proposal evaluated in the EA - let alone the fact that the See S.E. Section 2 at p.3; Section 3.d.2 at p.11; Section 4.a.2 at p.16, Nowhere, however, does The EA falls for short of satisfying a single one of these frquirements. For example, the Corps vaguely alludes to, but nowhere describes in any detail, dredging that may occur in 2001-2002. the EA strempt to discuss the cumulative impacts of these activities. In addition, the Corps has the EA does not mention this massive project, let alone analyze. Its impacts in conjunction with Lower Columbia project has been analyzed and is therefore clearly "reasonably foresecable" recently analyzed a project to despine the Lewer Cottmbia River -- an action that, if approved, will impact Snake River juvenile and adult salmon and steelhead as they migrate through the lowest reach of the Columbia River to make of the same ways as this propried. Despite the the proposed action, There examples are by no means exclusive. There are numerous other, easily identifiable actions - must be considered in the Corps' cumulative effects analysis. There is no way for the Corps to take a "hard look" at the environmental consequences of the proposal, without considering these River Barin ware rights adjudication, and ungestan water releases to propert resident fish. All of these activities and factors — whether they be in the development stage, or complessed projects. and conditions that impact Spates River stocks, including, but not limited to: continuing habitat types of cumulative impacts. The absence of any meaningful cumulative effects analysis in the destruction and modification from on-going and proposed land-management activides; Snake EA demands that the Corps prepare an EIS for this project.

malysis to ensure informed decision making to the end that 'the agency will not act on incomplete information, only to regret its decision after it is too late to correct." Blue Mountains. Biodiversity Project v. Blackwood, 161 F.3d 1208, 1216 (9² Ch. 1998). The EA's perfunctory and incomplete discussion of cumularive effects fails to salisfy fundamental requirement. The EA's failure to analyze all past, present, and reasonably foresceable future actions results in a NEPA "emplastize[8] the importance of coherent and comprehensive up-front environmental

skewed, and ultimately inaccurate picture of the impacts of the proposed actions, leading to the kind of "blinders-on" decision-making that NEPA is designed to prevent

The EA fails To Consider an Adequate Range Of Alternatives

agency used not consider "every device and thought conceivable by the mind of man," an agency Corn. V. Natural Resources Defense Council, Inc., 435 U.S. 519, 551 (1978). Resources Limited V. Robertson, 35 F.3d 1300, 1307 (9th Cir. 1993). The failure to consider all reasonable alternatives is fatal to the adequacy of an agency's NEPA analysis. Idaho Conservation Learus V. Munnaa, 956 F.2d 1508, 1519 (9th Cir. 1992). ("The existence of a viable, but unexamined objectively evaluate all reasonable atternatives." 40 C.F.R. §1502.14(a). However, while the is not free to ignore "an appropriate range of alternatives," Vermont Yankee Nuclear Power NEPA, §101(2)(C)(iii), requires that an EA contain a discussion of the "alternatives to the proposed action." The discussion of alternatives is at "the heart" of the NEPA process. 40 C.F.R. §1502.14. The CEQ regulations require the agency to "[r]igorously explore and alternative renders an environmetrial impact statement inadequate.")

two alternatives to dredging; the proposed action and "no action." Such a narrow range of alternatives does not fulfill NEPA's mandate to rigorously explore alternatives. For example, the Stripping away the alternatives given only trief consideration in the EA, the Corps analyzes only document, the court found that, "fonce the litegal and averlyping alternatives are removed from the FEIS, the Secretary was presented with basically only two different configurations for the Court in Commonwealth of Massachusetta v. Clark. 594 F. Supp. 1373 (D. Mass. 1984), found that the Department of Interior had not considered an adequate range of alternatives in its unalysis of an offshore oil drilling proposal. Of the thirteen alternatives presented in the sale... the FEIS is hopelessly skewed in favor of only small deletions from the proposfed action]." Id. at 1380.

Sec 11

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that navigation could continue even without dredging, conceding that "[b]arge operators would possibly lighten their loads to prevent grounding." Section 3.a. While perhaps not the preferred the fact that the Corps has not produced a final EIS for partial dam removal, an alternative that, if The EA's failure to consider a reasonable range of alternatives is even more troubling in light of extent, the navigation channel does not provide for navigation. Indeed, the Corps tacitly admira dismisses summarily the possibility of waiting to dredge until the completion of the long-term EIS (the "No Action" alternative). Section 3.a. There is no discussion of whether, or to what and threatened species. Consideration of such air alternative is especially necessary in light of reconfiguration of barging routes or timing for shipping during periods of higher flows Clearly merits further consideration where, as here, the proposed activity will impact several endanger the fact that many alternatives clearly exist. For example, even the "no sotion" elternative is given short shrift in the E.A. Cling the need for the Corps to provide for inavigation, the E.A. approved, would render dredging unnecessary and costly. SOS strongly arges the Corps to economic alternative for barge operators, consideration of an alternative that includes explore this and all alternatives in further detail in an EIS.

Cean Water Act

The Proposal Does Not Salisty 404(b)(1) guidelines.

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smilvis. In addition to having to analyze the cumulative effects of its permitting decisions purpuant to NEPA and the CWA, the Corps must evaluate cumulative impacts pursuant to EPA's § 404(b)(1) guidelines, 40 C,F.R. § 230. These guidelines require the Corps to determine that a § 404 permit will not "cause or contribute to significant degradation of the waters of the United evaluations, and tests." Id. In making this required determination, the Corps must consider the The same deficiencies present in the Corps' NEPA analysis also infect the agency's 404(b)(1) Stakes." 40 C.F.R. § 230.10(c). This finding must be "based upon factual determinations, 'tumulative effects on the aquatic ecosystom," which are defined as:

The changes in an aquatic ecosystem that are arributable to the collective effect of a miniber of individual discharges of dredged or fill mappinal. Although the impairment of the water resources and interfere with the productivity and water cumulative effect of numerous such piecemeal changes can result in a major impact of a perticular discharge may constitute a minor change in itself, the quality of existing aquatic ecosystems. 40 C.F.R. § 230.11(g)(1). In carrying out this analysis, the Corps must predict the cumulative impacts "to the extent reasonable and practical." 40 C.F.R. § 230.11(g)(2). The EA contains no such analysis. Mirroring its inadequate assessment of cumulative impacts under NEPA, the Corps glosses over this requirement with one sentance, concluding, without providing any supporting ordence, that "[n]o cumulative effects have been identified or aminipaned." App. A at 2.(F)(3)(h). Such gerfunctory analysis falls far short of the analysis contemplated by 40 C.F.R. § 230.11(g).

The Proposal Does Not Comply With Weshington State Water Quality Standards

contributes ... to violations of any applicable State water quality standard... As courts have receptly tendenced, the Corps must comply with numeric and narrative standards, as well as the Sans a unidegradation rules in the lower State River, 33 U.S.C. § 1323(a): National Wildlife Ect nv. U.S. Atmy Corne of Engineers, 92 F Supp. 2d 1072 (D.Or. 2000). The proposal 40 C.F.R. § 230.10(6)(1) prohibits my discharge of dredge or fill material if it "causes or discussed in the EA runs afoul of these requirements.

also has established a narrative standard that requires Class A waters to meet or exceed the needs of salmonid migration, rearing, spawning, and havest. WAC 173-201A-030(2)(e-b). preservation of designated uses. 40 C.F.R. §§ 131.6(a) and 131.11(aX1). These criteria can be established a specific numeric temperature criteria of 20 degrees Celsius. The State, however, The Clean Water Act requires each State to develop specific water quality criteria that ensure minerical, narrative, or both. For example, for the lower Stake River, Washington has

Washington has also enacted water quality standards for the purpose of establishing "water quality standards for surface waters of the store of Washington consistent with public health and public enjoyment thereof, and where the years' state's antidegradation rule mimics. WAC 173-201A-010(1). Pursuant to that purpose, the state's antidegradation rule mimics uses stall be maintained and protected and no further degradation which would interfere with or high quality waters, regardates of degradation, "existing beneficial uses shall be allowed." WAC 172-201A-070(1). For high quality waters, "the existing water quality shall be protected and pollution of said waters which will reduce the existing quality shall not be allowed, except in those instances where after while by provided all known, available, and reasonable methods of prevention, control, and treatment; and "the lower water quality shall still be of high sough quality to fully support all existing beneficial uses." WAC 173-201A-070(4). The proposal violates both of these standards ustrandards and antidegradation rules. See sizes at 5.

In addition, the Water Quality Standards for Surface Waters of the State of Wathington specifies that for Class A. Waters, the occurrence of toxic concentrations "shall be below those which have the potential either singularly or cumulatiyely to adversely affact characteristic water uses, cause acute or chronic conditions to the most sensitive biota dependent upon those waters, or adversely affect public health, as determined by the department." WAC 173-201(s). The Corps has not provided the supporting acientific evidence to determine whether the presence of sediment-associated contaminants and the potential effects of their resuspension from dredging will be consistent with the State of Wathington Surface Water Quality Standards. An ecosystem (evel analysis of the potential exposure to taxic contaminate is required in order to provised a reasonable assurances that public health and aquatic wildlife will not be negatively impacted through exposure to these contaminants during and after dredging operations.

Fallure to Comply with the Endangered Species Act

See 41 SOS appreciates the inclusion of the Biological Assessment (BA) with the EA, but we believe that the BA fulls to provide an adequate beas for meaningful consulation with the NMFS, violating the ESA and its implementing regulacions.

Section 7 of the ESA requires any federal agency undertaking an action that may affect listed salmon or steedhead to consult with NMES. 16 U.S.C. § 1356(a)(2). The presence of multiple species listed under the ESA has necessitated the initiation of consultation through the preparation of the BA that accompanies this EA. The ESA mandates that the BA "shall evaluate the potential effects of the action on listed and proposed species and designated and proposed critical habitat and determine whether any such species or tabitat are likely to be adversely.

² This also raises an additional problem with the Corps' cumulative impacts analysis. A potential effect of moving these sediments from the river bottom to the riverside is their exposure to wind and other elements should dam breaching become the preferred alternative in the Corps' Draft EIS. There is no analysis of this potential in the EA, nor is this mentioned as a benefit for selection of upland disposal.

affected by the action." 50 C.F.R. § 402.12(a). See also 16 U.S.C. § 1536(c). This proposed action would undoubtedly affect numerous listed salmounds, which triggers formal consultation with NMFS. Formal consultation results in a Biological Opinion (BO), to determine if the adverse effect will jeopardize the species of destroy or adversely modify critical habitat. 16 U.S.C. § 1536(a)(2).

A BA provides the foundation for consultation and should supply NMES with enough background data to enable NMES to "use the information in the biological assessment, together with other relevant information if peccessary, to formulae a biological opinion on the proposed language, Den Rohlf, The Endangarid Special Act. A Unite to It Protections and information, 106 (1989). Unfortunately, the poor analysis of the actions proposed, the conclusory statements, and lack of a cumulative effects inquiry in this BA fall far short of the With an additional analysis of the potential impacts to listed species, most notably salmonida. Unfortunately, just like the curvery analysis in the EA, the BA suffers from the same scientific flaws discussed above.

See 42 The BA toughly stenders some affects of the proposed project on listed sulmonids, but little detail of those affects, nor the long-term impacts are discussed. In addition, the beselfine of the current habitut for listed animonids in the project stra is not discussed. A thorough discussion of the impacts of current management practices is a necessary and useful starting point for an addunate BA. That discussion is missing from the BA but, standing above, would not satisfy the more crucial requirement that a BA "evaluate the potential effects of the action." 50 C.P.R. § 402.12(a). To be meaningful or useful to NMFS and to the public, the BA must fully evaluate it of the effects of current management and the potential effects of proposed alternance sculous.

Consistency with Other Salmon Recovery Documents

See 45 [When the Corps' BA is viewed in the context of recent documents that serve as a basis for salmon recovery in the Columbia Basin, it becomes apparent that the this EA minimizes or ignores much of the guidance outlined in these documents. This is especially clear in respect to the Federal Caucus' document, Conservation of Columbia Basin: Salmon Recovery Strategy.

The overall premise of the Salmon Recovary Szategy states that [i] it stims for citizens, governments, and special interests in the Columbia River Bann to collectively rake immediate and sustainable actions to rebuild the health of the Basin. (Executive Summary. 12). While the Corra EA does act upon the immediate, it largely imports the issue of sustainability. This is particularly true in respect to the Corra' plan for the Beneficial Use" of dredged materials for the purpose of creation of shallow water rearing tabling.

The Salmon Recovery Strategy einphasizes that there is a great need for information concerning mainstem tabitat projects. Included is the need to identify responses of habitat improvements in large rivers-especially the Columbia River Basin-to determine the relationship of the size of improvement to the size of impact on the environment (Salmon Recover Strategy, Vol. II, 21). To achieve these informational needs the plan calls for "rigorous monitoring and evaluation action plans that may lead to changes in ... identification of cause and effect relationships" (Vol.

II. 21) The existence of such uncertainties does not excuse poorly assessed projects but, as explicitly stated in the Strategy, the "ongoing uncertainties simply emphasize the importance of accountability, monitoring, and evaluation" (Ex. Summary, 5).

The proposed action for beneficial use as described in the EA, does not incorporate this form of monitoring and evaluation in respect to the impact of the proposed project upon salmon and the environment. The Corp's takes care to address monitoring of the engineering integrity of this project but largely ignores scientific credibility by foregoing actions to initiate the rigionus monitoring and interagency approach as mandated by the Recovery Strategy.

See 20

The Corps acknowledges that such a program is being sought through the establishment of the RDT: As described by the Corps the RDT will, "establish sampling and serting procedures, assist with development of a monitoring plan, insuré acherence to environmental laws, and involve other groups for consistency with local plans" Section 3 d.2 at p.11-12. Despite the existence of a group that will allow compliance with the Recovery Strategy, the Corps continues to insist on proceeding with a large-scale habitat project in an area of special informational needs, and many unknowns, without utilizing a scientifically credible process. The result of not having a terientifically records condinated effort is clearly described in the Strategy. This lack of edherence will not only render any manitoring program usoless, but will also undercut the importance of the management actions themselves." (Vol. I, 55)

Again, the choice being made by the Corps is to forgo a "well organized implementation process" and to instead just the Corps' commitment and compliance to a strong interagency approach to assainon recovery into question. The need for interagency actions now is evidenced often in the Recovery plant as success, "hinges on active and effective leadership and significantly improved coordination among federal, state, tribal and local agencies." (Ex. Summary, 10).

The commitment to the Salmon Recovery Strategy is put into further doubt by the way the Corps summarizes its priorities. As stated, "It is Corps policy to dispose of dredged material associated with the construction or maintenance dredging if travigation project in a manner that is least costly, is consistent with sound engineering mactice, and that meets federal environmental standards" Section 2 at p.3. The need to go beyond this policy has alterally been made evident by the continued decline of endangered salmon and steethead populations.

In addition, NMFS has determined through its Biological Opinion that the current state of the operation the Columbia River system will not sufficiently reduce the risk to these species and therefore requires aggressive salmon recovery measures including those strategies outlined in the Federal Caucus Recovery Strategy. The Corps needs to follow through no changes in policy and planning immediately in order to put salmon on equal footing with coorems of navigation. While these measures are not sufficient, by themselves, to recover stratmably harvestable populations of salmon and steelbead, they correctly recognize the need for fundamental changes pronouncements, the action proposed in this EA demonstrates the Corps' intent to continue "business as usual" on the Stake River.

In sum, NEPA, the Clean Water Act, and the ESA require more for listed species and water quality than the current EA and BA provide. Thank you for the opportunity to comment. If you have any questions, or would like to discuss this matter in more detail, please do not healtase to contact us.

Sincerely,

Office, Wester, for:
Put Ford, Save Our Wild Salmon
Bill Arthur, Sierre Club
Tim Steams, National Wildlife Federation
Rob Masoinis, American Rivers
Shawn Caubrull, Friends of the Earth

Glen Spain, Pacific Coast Federation of Fishermen's Associations and Institute for Fisheries Resources.
Lovenia Warren, Salmon for All
Bill Sedivy, Idaho Rivers United.

Cc. Donus Darm, National Marina Fisherica Service
Charles Findley, Environmental Protection Agency, Ragion X
Tom Fitzsimmons, Washington Department of Ecology
Jennifer M. Belcher, Washington Department of Natural Resources
Dr. Jefffrey P. Koemings, Washington Department of Fish and Wildlife
Suphante Halinck, Oregon Department of Environmental Quality

C

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Comment 1

the DEIS is inadequate in many respects, and the Corps' preferred alternaive needlessly threatens to harm imperiked salmon and steelhead inhabiting the Columbia-Snake Rivers.

Appendix F), However in the NMFS Biological Opinion, it is stated, "The NMFS has determined endangered UCRS chinook, endangered UCR steelhead, or threatened MCR stælhead or result in eopardy is based upon the current status of the species, the environmental baseline for the action that the effects of the proposed actions will not jeopardize the continued existence of endangered The Corps realizes that dredging and disposal of material in the lower Snake River and McNary Reservoir may have negative impacts to some ESA-listed fish in the project areas (DMMP SR sockeye, threatened SRF chinook, threatened SRSS chinook, threatened SRB steelhead, the adverse modification or destruction of their Critical Habitat. The determination of no rea, and the effects of the proposed actions."

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Comment 2

Non-dredging (or reduced dredging) alternatives, which would be safer for fish, are not analyzed or considered. .. the Corps states that its goal is to pursue the lowest-cost alternative that does not violate federal environmental law. This is hardly a lofty standard, yet one that the actions analyzed in this DEIS still fail to meet.

consistent with sound engineering practice and meet all Federal environmental standards...". The minimize impacts to or even benefit aquatic resources. Section 1.8 has been expanded to discuss Non-dredging and reduced dredging afternatives were considered in the planning process and are Corps also considered and, wherever possible, integrated components of alternatives that would and need stated in Section 1.2. The alternatives also comply with the Corps' Planning Guidance documented in Sections 2.2.1 - 2.2.3. The text in these sections has been revised to include an problem in the five reservoirs. The alternatives evaluated in the DMMP/EIS meet the purpose Votebook, Engineering Regulation 1105-2-100, which states that 'It is the Corpsof Engineers expanded discussion of why these measures would not adequately address the sedimentation the role of the Local Sediment Management Group in addressing changes in upstream land maintenance dredging of navigation projects in the least costly manner. Disposal is to be solicy to accomplish the disposal of dredged material associated with the construction or management to reduce erosion and sedimentation, as well as their role in identifying and evaluating opportunities for beneficial uses of dredged material.

believes the four action alternatives that were analyzed are cost-effective and are in compliance Based on its own analysis and comments received from the regulatory agencies, the Corps with environmental laws.

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One of the more disturbing features of the Corps' plan is that it entirely dismisses dam-breach

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channel within the five reservoirs. Therefore, dam breaching was not considered as an alternative. Breaching any of the dams would not meet the purpose of maintaining the authorized navigation of the DMMP/EIS. Section 1.6 of the DMMP/EIS addresses the relationship of the DMMP/EIS to the Lower Snake River Juvenile Salmon Migration Feasibility Study (Feasibility Study). The alternative in the Feasibility Study is Major System Improvements (Adaptive Migration), which However, this does not mean that possible dam breaching was not considered in the preparation scenarios, which would obviate the need for expensive and risky navigation dredging and lewe progress reports in 2003, 2005, and 2008. The 2008 report must include a determination of whether or not to pursue dam breaching. Until such a decision is made and Congress authorizes Feasibility Study analyzed the impacts of breaching the four lower Snake River dams as one of the alternatives. Therefore the DMMPEIS did not repeat this analysis. However, the preferred dam breaching, the Corps has the responsibility to maintain the navigation in the lower Snake breaching, the 2000 National Marine Fisheries Service Biological Opinion calls for major modifications for fish transportation. Even though this alternative does not include dam includes modifying the dams, optimizing voluntary spill, and implementing operational construction.

River as authorized by Congress.

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Comment 4

fnothing else, the Corps should not be moving ahead with a major long-term project with serious impacts to equatic species until a final decision on dam breach is made.

based on that decision will not likely be made until sometime after 2008. In the interim the Corps The decision whether or not to pursue breaching of the four lower Snake River dams may not be made until the 2008 checkpoint. Changes in the need for navigation on the lower Snake River channel. It should be noted that, even if the four lower Snake River dams are breached, there needs to continue its long-term planning to meet its responsibility to maintain the navigation would still be a sediment issue (and the need for dredged material management) in McNary

Also see the response to comment 3 above.

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Comment 5

other in only the most mazinal respects. This is hardy a sufficient scope of different alternatives to offer a reasoned choice of options: absent meaningful consideration of non-dredging or Instead, it (the Corps) has presented four virtually identical abernatives that differ from each reduced dredging.

Response

The range of alternatives meets the project purpose and need. Non-dredging and reduced dredging alternatives were considered. The Corps was unable to identify any non-dredging alternatives that would preclude the need for dredging. Reducing sediment generated by land use practices was considered, but would not eliminate the need for dredging. Although the Corps has

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no authority to change land use practices on non-Corps property, the Corps plans to use the Local Sediment Management Group to pursue possible modifications to land use practices to reduce the future need for dredging.

Drganization

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Comment 6

Clearly, a "no action" alternative that involves as much "action" as this one is invalid to meet the purposes described above, even if continued dredging was truly required, which SOS disputes.

Response

When preparing National Environmental Policy Act (NEPA) documents, the "No Action" alternative can also be called the "No Change" alternative, as in 10 change in the current way of doing business. For the DMMP/EIS, "no action" was defined as no change in the way the Corps existing legislation or regulations will continue, even as new plans are developed.... "no action" would be a useless academic exercise. Therefore, the "no action" alternative may be thought of is currently maintaining the navigation channel, port facilities, boat basins, or irrigation intakes. This interpretation is described in the Council on Environmental Quality publication "NEPA's guidance further states that: "To construct an alternative that is based on no management at all is "no change" from current management direction or level of management intensity." This Forty Most Asked Questions," which states that where "on-going programs initiated under in terms of continuing with the present course of action until that action is changed." (46 ederal Register 18026, as amended, 51 Federal Register 15618).

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Comment 7

The Corps failed to evaluate non-dredging (or reduced dredging) alternatives such as lighter

barges or reduced commodity shipping.

comments 2 and 5 above. In addition, the response to comment 29 below provides detailed The Corps evaluated a variety of non-dredging and reduced dredging measures. discussion of light-loading barges.

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Comment 8

requires that the Corps continue dredging. Congress authorized dredging, but does not require it. The Corps presents the Congressionalauthorization to pursue dredging, see DEIS 1-5, as if it

The legislative history of lower Snake River navigation indicates Congress intended for the lower Snake River to have a navigation channel 14 feet deep and 250 feet wide up to, and including. Lewiston, Idaho. The Corps plans to continue to carry out the intentions of the United States Congress as closely as possible.

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Response to Comments

Organization

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need to dredge. NEPA requires consideration of reasonable alternatives like this one even if they opportunities to work cooperatively with state, federal and private land owners and managers to mpact dredging. . . . Another alternative the Corps should have considered id breaching Lower A further example of the DEIS' myopic focus on intensive dredging is its failure to meaningfully are not within the Corps' jurisdiction. 50 C.F.R. 1502.14 (c). SOS urges the Corps to evaluate address methods to reduce sediment input into the rivers, which would reduce substantially the reduce sediment input into the Columbia basin streams as an alternaive to continued high-Comment 9 Granite Dam

cotentially viable methods are changing land use practices and installing bendway weirs. Neither input. The Corps also proposes to study bendway weirs if the decision is made in 2008 that the Group (LSMG) to encourage land use managers to adopt practices that would reduce sediment of these methods would totally stop sediment from entering the rivers or being deposited in unacceptable locations. The Corps plans to work through the Local Sediment Management The Corps did examine possible ways to reduce sediment input into the rivers. The only Snake River dams will remain intact and functional. In-water structures, such as bendway weirs, have been booked at in the past and were evaluated as Lewiston/Clarkston area because they would raise the water surface during high flows and could part of the development of the DMMP (See Section 2.2.3.2 of the DMMP/EIS) Structures like then over-top the levee. Keeping the navigation channel clear and the high-flow water surface bendway weirs can increase water velocity and impact flow direction, but sediments will accumulate behind them. Specifically, bendway weirs would not be appropriate in the level down are goals of the plan. Bendway weirs may be an appropriate option in other areas where water surface elevation isn't as critical as at Lewiston. Bendway weirs, or other appropriate non-dredging technologies, may be considered at other locations to address limited sedimentation on a case-by-case basis. The Corps and LSMG may evaluate use of such a technologies in the future, within the framework provided by the DMMP.

Breaching Lower Granite Dam would not meet the project purpose and need which includes providing navigation to Lewiston, Idaho. Because breaching the dam would not meet the project purpose, this alternative was not considered in the DMMAP/EIS. Also see responses to comments

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Comment 10

There are other opportunities that may satisfy the Corps goal of particular channel depiths besides dredging, such as the idea of "sediment pass through." The Corps should more actively

seek out these kinds of atternative avenues.

The Corps has considered sediment pass through, or flushing (both with and without reservoir drawdown) and has determined that it is not a viable alternative to meet the purpose and need Response

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outmigration has some potential. One of the major drawbacks of drawing the reservoir down to passage system at Lower Granite Dam as unusable. There are two alternatives for fish passage that degree during the fish outmigration period would be the rendering of the juvenile fish The drawdown of the reservoir of 10 to 15 feet during the annual flood season and smolt without the juvenile bypass systems, turbines and the spillway.

factor in that depending on the gatewell environment, conditions for fish can be detrimental if fish and put fish in trucks for transporting downstream. Gatewell residence time, however also plays a (Swan et al. 1994), up to 18 would need to be constructed at a cost that may exceed the dredging costs for the 20-year course of action. Another alternative would be to periodically dip gatewells eventually die there. Although a lift tank was tested in 1994 for removal of fish from gatewells turbine, with possibly higher than desired mortality rates. In addition, a large number of fish For turbine passage, the traveling screens could be pulled, and fish would pass through the would be trapped in the gatewells with no opportunity for exit, and a great number could spend too long in there.

(Eppard et al, 1999) for fish spilled during high and 100% spill scenario, however, some fish that passed during these scenarios do experience longer tailrace residence times (Eppard -NMFS. powerhouse operation, a large eddy would be set up in the tailrace of the dam. A predator shrly spill on, versus spill off without regard to powerhouse operations). If an eddy is set up, it has the potential to continually cycle juvenile fish within the eddy and constantly expose them to more Lower Granite Dam tended to seek out the lower velocity areas (although this study mentioned (Bjornn and Piaskowski 1999) showed that during spill operations, predators in the tailrace of predators. Only a few minutes of migration delay were seen in the Ice Harbor Dam tailrace If an all spillway route were determined to be the most appropriate passage route, with no Personal Communication, 2002).

drawdown occurred. Invertebrates that use the Port of Wilma, Centennial Island and other known operations. Rearing areas important to fall chinook and sturgeon would be rendered less usable if rearing in the area either during drawdown or after water up. Bennett demonstrated that after the crayfish to a diet composed of more juvenile salmonids. This was due primarily to the reduction channel catsish and other predatory species all have the potential to change predation targets and species would be negatively affected, other species that prey on them including White Sturgeon, negatively affect salmonid smolts. Disruption of the food web on a repetitive basis would cause drawdown event, Smallmouth Bass changed their predation targets, from preying on primarily shallow water rearing areas would be desiccated and would provide little to no benefit to fish in the number of invertebrate species caused by the drawdown. Because these invertebrate In addition, spawning migrations of fish into Alpowa Creek may be blocked by drawdown overall detrimental effects to the limnological characteristics of the reservoir

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Comment 11

The DEIS falls far short of these strict standards. Instead it presents sweeping generalizations

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Appendix O Response to Comments

md unsupported assertions, andpromises environmental benefits that are either unsupported or actively contradicted by the available science.

1987 to ensure it evaluated the effectiveness of habitat creation. These agencies included the U.S. The proposed habitat creation is supported by established research, the study plan and findings of researcher who was a recognized expert in the field, and a study design from the region's leading Numerous scientists from federal, state, university and tribal agencies set up the study design in Yakama Indian Nation. The researcher involved with many of the studies was David Bennett, Army Corps of Engineers, U.S. Fish and Wildlife Service, National Manne Fisheries Service, ESSA, Battelle-PNNL, Washington Department of Fisheries, Oregon Department of Fish and Wildlife, University of Idaho, University of Washington, Oregon State University, and the which were developed and reviewed by a variety of government, tribal, and academic peers. Ph.D., a tenured professor at the University of Idaho. With a multiple-year study, a lead experts, the resulting science supports the proposed beneficial uses of dredged material.

shows promise. The Corps will monitor the success of any habitat creation areas as described in In their Biological Opinion, NMFS has concurred that the proposed creation of salmon habitat the Monitoring Plan (Appendix M).

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Comment 12

For example, the DEIS largely discounts the impacts of the project to ESA-listed fish based on the premise that relatively few fish will be in the river during the time that dreeging will actually

Response

of hatchery and natural subyearling fall chimook salmon residualized and migrated early in spring Although the Corps has no desire to harm any fish and is attempting to avoid impacts by working subyearlings. (Tiffan et al, 2001). According to Williams and Bjornn 1998, "A small proportion seaward as yearlings in spring was small and did not affect survival estimates." This indicates These issues are addressed in the DMMP/EIS in Appendix F. Fall chinook typically have an that only a small proportion of fall chinook over winter in the reservoirs during some years. 1997. However, as with fish released in 1995, the number that overwintered and migrated in the established work windows, the Corps has determined that proposed dredging and ocean type rearing life history and typically outmigrate seaward during the summer as DMIMP/EIS could harm some individuals of these listed stocks.

Section 3 of the DMMP/EIS outlined fall chinook behavior and life stages in the project area and hat proposed activities are likely to adversely affect overwintering and rearing fish of these runs. creating rearing habitat. The DMMP/EIS also addresses Snake River Basin steelhead in Section not likely adversely affect adult passage based on the type of dredging involved. In addition, the DMMP/EIS discusses Snake River Basin Spring/Summer-Run Chinook in Section 3, indicating would likely adversely affect juvenile fish by dredging. However, the proposed activities would 3, covering behavior and life stages in the project area and determined that proposed activities dredging. However, the Corps would be creating a long-term benefit to these salmonids by determined that proposed activities would likely adversely affect fall chinook salmon by

will not likely jeopardize the existence of any of the listed endangered or threatened species in the According to NMFS Biological Opinion (Appendix F), the actions outlined in the DMMP/EIS

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U.S. Army Corps of Engineers

Snake or Columbia rivers.

Organization

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It is not at all clear that impacts will be so short-term that they will not affect fish arriving later. Comment 13

Response

existing fish habitats. In addition, as part of the Reasonable and Prudent Measures (RPMs) set out Sediments disturbed by dredging are not expected to drift great distances downstream and cover by the NMFS Biological Opinion, the Corps is directed to assess the habitat that is currently in the reservoir both before and after dredging occurs.

actually cause any of the problems for fish attributed to high turbidity (Allen and Hardy, 1980). In fact the criteria of not exceeding 5 NTUs over the background level for turbidity while dredging The US Fish and Wildlife Service indicates that there is little evidence that dredging operations is relatively conservative. Although turbidity may cause stress, Gregory and Northcote (1993) have shown that moderate levels of turbidity (35-150 NTU) accelerate foraging rates among iuvenile chinook salmon, likely because of reduced vulnerability to predators (camouflaging

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The DEIS does not explain how sediment plumes will not adversely impact fish habitat downstream as itsettles.

Response

See response to comment 13 above.

Organization

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economic harm can constitute an emergency that should permit dredging during the migration Yet the DEIS provides no guidance on what situations might constitute an "emergency," what steps could be taken to avoid one, and what environmental consequences can be expected to follow from dredging during migration season. SOS strongly disagrees that commercial or Comment 15

Dredged or Fill Material into Waters of the U.S. or Ocean Waters (33 CFG 335.7). Any potential Section 2.2.4.4 defines what an emergency is and gives several potential situations that would be considered an emergency requiring emergency dredging, consistent with Operation and emergency situation would likely be caused by high flows moving sediment or rock. The Corps the navigation channel known to experience shoaling. The environmental effects of performing cannot control the flows of tributaries entering the reservoirs. Therefore, the Corps cannot take steps to avoid an emergency other than perhaps the periodic removal of sediment from areas of Maintenance of Anny Corps of Engineers Civil Works Projects Involving the Discharge of

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U.S. Army Corps of Engineers Walla Walla District

1 (ppendix O Response to Comments

as possible. The Corps will consult with the National Marine Fisheries Service and the U.S. Fish emergency dredging in a manner that minimizes any adverse effects on the environment as much emergency dredging would depend upon the situation. The Corps would attempt to perform the and Wildlife Service for emergency situations. This consultation will occur as soon as possible, but may occur concurrently with or after completion of the emergency dredging.

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rediments. SOS believes that the risks presented could be far greater than those acknowledged by the DEIS largely dismisses the potential for dredging to stir up toxic wastes contained in he DEIS

Response

within the sediments to be dredged. The collection and analysis of sediment samples will be done the Corps' intent is to test the sediment and avoid reintroduction of any chemicals of concern into probability that significant amounts of chemicals of concem will be identified prior to the start of DMMP/EIS. Monitoring during dredging will assess whether unacceptable amounts of sediment the water column, monitoring will be used to limit the extent of impacts if an unknown "hot spot" modified to provide additional controls or limit the extent of sediment plumes in the river. While Analysis prior to dredging will include chemical analysis to identify contaminants if they exist movement may occur during dredging operations and require that the work be stopped and/or in accordance with a specific Sampling and Analysis Plan that is designed to provide a high The findings presented in the DMMP/EIS are based on reviews of available sediment data dredging operations. A monitoring plan is being developed, and is included with the Final is encountered during dredging. See Monitoring Plan (Appendix M).

Organization

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Comment 17

The Corps should provide much more detailed information, including the results of recent comprehensive sampling and core tests throughout the areas to be dredged.

sediment data were used. Detailed data are provided in Appendix H, including the pertinent data from recent sediment sampling. As the sampling and analysis of each area proposed for dredging Available data that is relevant to the potential dredging activities were considered during the planning process. Section 3.9 of the DMMP/EIS has been revised to provide more detail on how is completed, that information will be made public as a part of the review process for each specific dredging project.

Organization

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The Corps should provide more detailed information on how it intends to monitor the dredging to ensure that toxics "hot-spots" don't cause habitat degradation.

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Walla Walla District U.S. Army Corps of Engineer:

See response comment 16 above.

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Comment 19

have been ignored. The DEIS fails to address these concerns or provide any other support for the The DEIS assumes, without any analysis or support, that in-river disposal will create effective "habitat" for salmon and other species. While SOS supports valid salmon habitat restoration measures, we are concerned that the benefits of in-niver disposal are overstated and the risks Corps' conclusion that in-river disposal will benesit fish.

University, and the Yakama Indian Nation. The researcher involved with many of the studies was David Bennett, Ph.D., a tenured professor at the University of Idaho. With a multiple year study design, a lead researcher independent from the federal government, and a study design from the Department of Fish and Wildlife, University of Idaho, University of Washington, Oregon State include the U.S. Army Corps of Engineers, U.S. Fish and Wildlife Service, National Marine. Findings are based upon a multi-year study of creation of habitat. Numerous scientists from sederal, state, university and tribal agencies set up the shudy design in 1987. These agencies Fisheries Service, ESSA, Battelle-PNNL, Washington Department of Fisheries, Oregon regions leading experts, the Corps believes that the science is sound (Web et al 1987),

results." For this project, the Corps has met the baseline data gathering through David Bennett's Power System (FCRPS) indicates that the Corps is supported in these actions. Action 155 states "BPA, working with the Corps will take inunediate steps to begin to address these uncertainties by collecting baseline data, improving mainstem reaches in ways that mimic the range and the diversity of historic habitat conditions as nuch as possible, and monitoring and evaluating the In addition, the NMFS 2000 Biological Opinion for operation of the Federal Columbia River work and is now attempting to mimic the habitat that was in place prior to the hydrosystem completion.

Organization

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Comment 20

strategies linked to mondoring could affect frequency of dredging, minimize costs, and minimize Some provisions for monitoring results and changing direction as required shauld be included To the extent that the "Local Sediment Management Group" could constitute such an adaptive management mechanism, much more information on standards needs to be included to ensure careful scrutiny of results and cautious adaptation to protect natural resources. Adaptive

monitoring plans. These will largely focus on water quality, sediment contamination, and redd distributions. The Corps plans to perform biological monitoring of the disposal areas to ensure that the areas are providing the anticipated food organisms and are being used by target fish species. The Corps also plans to monitor the stability of the embankments created by in-water As described in the Biological Assessment for Anadromous Fish Species and the Biological Opinion from NMFS (both found in Appendix F), the Corps will implement a number of

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disposal to determine if changes need to be made in the construction plans. Results from all of the monitoring will be used to indicate where and how changes need to be made in the disposal plan. The LSMG will be appraised of the results of the monitoring. The LSMG will also be asked to recommend changes based on the monitoring results.

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With respect to the potential ecosystem impacts associated with constraining rivers within levees. stood waters within levees, rather than letting hem spill into stoodplains. It is silent on potential aqualic risks associated with construction and maintenance of these structures, which could be The DEIS fails to discuss potential impacts to the river ecosystem associated with constraining anticipated given their proximity to the river.

capacity. The purpose and need of the DMMP is, in part, to address flow conveyance in Lower Granite during a flood event: flow conveyance is currently affected by the levees that were the proposed action would constrain no more of the river within levees than the original design constructed as an upstream extension of the lock and dam complex.

levee raise is not anticipated to have significant adverse effects on aquatic resources. Most construction would occur on the existing levee, and the Corps would take all practicable measures would plan to complete work on the land-side of the levees and minimize work on the river side of the levee. Once the proposed levee raise is constructed, maintenance of the levees would be to minimize the sedimentation that results from the construction activities. The final design of levee modifications would seek to avoid in-water work to the extent practicable, and the Corps With regard to the construction of the levee raise and risks to aquatic resources, the proposed similar to the program currently in place.

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extensive and highly conservative flood control management available in the upper Snake basin. Moreover, the Corps should discuss whether levæ construction is even necessary in light of the

The hydrology used in the risk analysis is based on Corps flood control rules and regulations. The Appendix C presents the details of the Corps' hydrologic analysis. These factors were considered in combination with the Corps' flood control regulations, which apply to projects such as Lower Granite. Further, a risk assessment is a component of the overall hydrology analysis. The risk hydrology analysis considered upstream flood control management and sedimentation rates. assessment allowed evaluation of damages prevented by alternatives in comparison with the ilternatives' costs. The recommended alternative presented a positive benefit-to-cost ratio.

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The Corps analysis utilized best data available, and concluded that further levee raises would not be needed in the economic life time of the Lower Granite Project. Throughout the life of the project (up through the year 2074) the risk of fbod damage is significantly decreased by the three-foot levee raise. The need for levee raises will be re-evaluated after 2074 based upon current conditions at that time.

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The hydraulic modeling used to determine sedimentation locations, volumes, and rates in this sover of an inferior one-dimensional model because of time constraints... Additionally, some of the studies are over a decade old, and have not been updated.... Given that this DEIS is essentially driven by ædiment transportation issues, SOS objects to use of the one-dimensional sediment transport in the Snake and Clearwater Rivers that would have given a more accurate understanding of sedimentation issues. However, the Corps elected to discard that analysis in DEIS is inadequate... The Corps originally proposed a two-dimensional model analysis of study and asks the Corps to delay implementation of a final EIS until appropriate and scientifically sophisticated modeling can be achieved

Response

the amount and timing of future sediment inflow into the reservoirs outweighs whether a one- or DMMP. Data for a two-dimensional model is not readily available. Further, the uncertainty of A one-dimensional model provided results that were valid and appropriate for the scope of this two-dimensional model is used.

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Comment 25

The DEIS ignores the sweeping range of direct and indirect harms faced by salmon migrating through this region of the Columbia and Snake Rivers.

Migration Feasibility Study (LSRJSMFS), which is thoroughly documented in the February 2002 cumulative effects analysis, which the Corps of Engineers consulted in conducting its cumulative effects analysis (CEA) for the Draft DMMP/EIS CEQ and EPA both provide guidance on Corps of Engineers considered past, present, and reasonably foreseeable future events throughout practical delineations of these boundaries should be established. For the DraftDMMP/EIS, the setting spatial and termoral parameters for CEA, and acknowledge that, while the geographic boundaries of the CEA may be broader than those used in assessing direct and indirect effects, he Corps addressed impacts to migrating salmon in the Lower Snake River Juvenile Salmon reasonably foreseeable future actions." The CEQ and EPA provide guidelines on conducting from the incremental impact of the [proposed] action when added to other past, present, and documentation of these impacts (see section 1.6), and these findings are incorporated by Final Feasibility Report/EIS (FR/EIS). The DMMP/EIS considered the FR/EIS and its reference. As stated in the Draft DMMP/EIS cumulative effects are those effects that "

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Response to Comments

analysis has been expanded in the Final DMMP/EIS (Section 4.14) and provides more details on establishing the environmental baseline (i.e., affected environment) for evaluation of the DMMP, and are documented in Chapter 3 of the Draft DMMP/EIS. The discussion of cumulative effects the geographic and temporal scope of the analysis, as well as resource-specific discussion on he lower Snake River and McNary Reservoir. Consideration of historic events, such as the development, operation, and maintenance of the inland navigation system, is important in otential cumulative effects.

of the proposed action. As stated in the Draft DMMP/EIS, the proposed action is not anticipated effects on environmental resources, but does not anticipate such impacts would occur as a result CEQ regulations provide further guidance that CEA should consider the effects of the proposed proposed action is anticipated to have some benefits to aquatic resources. Further, the adaptive modify and evaluate specific actions within the framework provided by the DMMP, potentially action when added to past, present, and reasonably foreseeable future actions. The Corps of Engineers readily acknowledges the proposed action's potential for additive and/or synergistic to add to existing or future impacts so as to result in significant environmental effects. In fact, resulting in even greater benefits (and correspondingly fewer negative effects) than currently management scenario proposed in the preferred alternative would provide the flexibility to

Organization

Save our Wild Salmon Coalition Comment 26

the DEIS, however, is entirely silent on hydrosystem management and this sweeping range of harms presented to migrating salmon.

The LSRJSMFS addresses system management effects on migrating salmon. The DMMP/EIS considered the LSRJSMFS and its documentation of these impacts (see section 1.6). Response

Also see response to comment 25 above.

Save our Wild Salmon Coalition

Comment 27

The DEIS's cumulative effects analysis does not aid in anyone's evaluation of the risks and benefits of the various alternatives.

Response

See response to comment 25 above.

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Comment 28

The DEIS sails entirely to justify the need for the project.

Section 1 of the DMMP/EIS (and in particular, Sections 1.2 and 1.7) provides detailed discussion

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River and McNary Reservoir. Section 1.4 provides details on the authorization of the navigation sedimentation that reduces the channel to less than the Congressionally authorized 14-foot depth. describing alternatives, and presenting the evaluation of those alternatives. Also see response to of the purpose and need and justification for dredged material management in the lower Snake Thus, the Corps has examined a broad range of alternatives to address sedimentation-related channel in the DMMP study area. The navigation channel within the study area is subject to DMMP/EIS is consistent with the requirements of NEPA in stating the purpose and need, concerns for navigation and flow-conveyance, including non-dredging alternatives. The comment 29 below.

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Comment 29

mpact of reduced or no dredging. The analysis of the economic costs and benefits turns on a While the DEIS describes the economic benefits of dredging, it fails to analyze the economic implistic choice between barging as it exists today, and no barging altogether. Response

benefit analysis on the authorized Federal navigation project to ensure that the project remained lepth that yielded the maximum net economic benefits. Instead the Draft DMMP/EIS performed navigation costs and benefits for different channel conditions was performed. Had the purpose maintenance that would result in a change (in depth) to the authorized Federal channel was not maintain the authorized navigation channel and certain publicly-owned facilities in the lower depths, both shallower and deeper than the authorized channel, would have been considered. The purpose of this DMMP/EIS is, in part "to develop and evaluate alternative programs to Navigation benefits and dredging costs would have been compared to determine the channel considered as a part of the Draft DMMP/EIS. Therefore, no detailed incremental analysis of included determining the national economic development plan (NED), a variety of channel Snake River and McNary reservoirs for the next 20 years." Consideration of reduced economically feasible

for moving the forecast grain shipments from the Snake River in the 20-year period from 2004 to in barge costs when the channel capacity was reduced by only one foot. However, where channel be 3,270 tons and 2,950 tons, respectively. The impact of this reduced capacity would be to raise barge cost data prepared for the Lower Snake River Feasibility Study were used to determine the per ton barge costs by 10% and 22%, respectively. The resultant increase in transportation costs selected to represent the impacted commerce. Grain barge costs for shipments from the various long, 42 feet wide, and 13.5 feet draft) with drafts of 12.5 feet and 11.5 feet were determined to analysis, based on 1999 costs, indicated that dredging costs were equal to the estimated increase transportation. In essence, shoaling that reduces the channel depth by one foot represents "break even" point where maintenance dredging is feasible and cost-effective. While this malysis two shallower Federal navigation channels, with controlling depths of 13 feet and 12 feet, were assumed to result from termination of maintenance dredging. Grain shipments, representing 78.8% of the commerce on the Snake River for the period of 1987 to 1996, were depths were reduced by two feet, the cost of dredging was about half of the increased cost to feasibility of the maintenance dredging proposed and evaluated in the DMMP/EIS. For this shallower channels. Reduced cargo capacity of the standard 3,600-ton grain barge (274 ret in further response to the issues raised in the comment above, transportation commodity and ports on the Snake River system were developed to reflect light loading to accommodate the The result of this 2024 was compared to the avoided amual cost of maintenance dredging.

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study was not an exhaustive analysis of the feasibility of reduced channel maintenance dredging. it indicates that dredging was more cost-effective than light loading the present barge equipment. if all waterborne commerce on the Snake River were considered, maintenance dredging of the federal navigation channel would be both feasible and more cost-effective than light-loading barges in the scenario described above, which considers only grain shipments.

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Comment 30

uncabined discretion on where and how to make disposal decisions and what standards should apply. SOS urges the Corps to povide greater detail and governing standards on how disposal making these determinations. Under the prefered alternative, this group will have virtually While SOS is not necessarily opposed to a flexible or adaptive process for making disposal determinations, the Corps has failed to provide any guidance, restrictions or standards for decisions are to be made.

Response

making the decision, the Corps will follow its policy of using the least costly method that meets environmental standards. In addition, all dredged material management actions taken within the framework of the DMMP and with the imput of the LSMG will meet regulatory and procedural the Corps will make the determination on what disposal method and location to use. The Corps will take the LSMG's recommendation into consideration when making the decision. When See Section 1.8 of the DMMP/EIS for a detailed discussion of the role of the LSMG. requirements of state and federal laws and regulations.

Organization

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Comment 31

shing and tribal groups, when making disposal decisions. These individual decisions must be the SOS also urges the Corps to consult with and to include the public, including conservation,

subject of site-specific NEPA analysis and ESA consultation. Response

as ports, Tribes, and environmental groups. The LSMG members would be notified in advance of The Corps does not plan to prepare an Environmental Assessment or Supplemental EIS each time method and location. As illustrated in Figure 2-7, the Corps plans to follow a series of steps each t dredges. However, the Corps may supplement the DMMP/EIS if there are substantial changes The Corps has expanded the list of participants in the LSMG to include non-agency groups such coordinating with the State Historic Preservation Offices. All coordination will be site-specific. time a dredging activity is planned. These steps include publishing a public notice prior to the dredging activity, coordinating with NMFS and USFWS, coordinating with the Tribes, and any proposed dredging and have an opportunity to make recommendations on the disposal in the plan or impacts.

Also see the response to comment 30 above.

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Comment 32

SOS believes that the entire purpose and need is far too narrowly defined.

The project purpose and need are consistent with Corps policy and requirements and Congressional authorization.

Organization

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Comment 33

regimes, including barge navigation, so that Congress and the public can have a complete picture products from Lewiston downstream. There are multiple different ways to transport products tha evaluate the relative merits, costs, and environmental risks presented by different transportation don't require the full ravigation channel, or even any barge navigation at all. This DEIS should The purpose and need for this DEIS should be focused more broadly on transportation of of the situation.

Response

ago when Congress authorized the construction of the Snake River dams and the establishment of a navigation channel. The costs of aternative methods of transporting products were evaluated The issue of finding ways of transporting goods from Lewiston downstream was answered years (see section 1.7.1). There was strong economic justification for maintaining the existing navigation system.

Also see response to comment 29 above.

Organization

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Comment 34

Clearly, dam management "cannot or will not proceed unless otheractions fnamely dredging] However, the Corps has chosen to divorce dam management from dredging and contemplate them in two separate NEPA documents, each of which ignores the issues raised in the other. are taken" concurrently.

Section 1.6 of the DMMP/EIS addresses the relationship of the DMMP/EIS to the Lower Snake management does come into play when producing hydropower, as modifications to the dams are dredging is not required to maintain the ability of the Snake River dams and McNary Dam to River Juvenile Salmon Migration Feasibility Study (Feasibility Study). See the response to comment 3 above. "Dam management" does take place without dredging. For example, produce hydropower, which is an authorized project purpose of the dams. However, dam being proposed to divert juvenile salmon away from the powerhouse.

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Response to Comments

Organization

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Comment 35

In fact, the Corps Bes so far as to raise numerous concernsabout sedimentation/turbidity issues associated with dam breach, but then ignores the same issues altogether insofar as they relate to the dredging that is necessary in the absence of breach

'urbidity caused by dredging, as compared to dam breaching, would be localized, minor, and short-term. Conversely, dam breaching would involve large, system-wide turbidity impacts. Sedimentation and turbidity impacts associated with dredging are addressed in a number of ways including restricting the time of year during which dredging activities can take place, restricting dredging operations, and monitoring during dredging operations. The restrictions and controls proposed for dredging operations are appropriate for the scope of the proposed actions. the methodology for dredging, characterizing the sediments that are to be dredged prior to

Organization

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Comment 36

decordingly, SOS requests that the Corps take the time to address the costs and environmental risks associated with dredging in the final Migration DEIS beforea ROD is finalized.

Response

February 2002. Section 1.6 of the DMMP/EIS describes the relationship between the DMMP and the Feasibility Study. The findings of the Feasibility Study have been considered in the he Lower Snake River Juvenile Salmon Migration Feasibility Study EIS was finalized in development of this DMMP/EIS.

associated with dredging. The Existing Systems and Major Improvements Appendix E discusses repair costs are included for the full duration of the economic study. The O&M costs are included rehabilitation of the dam turbine and generator units. Routine operation, maintenance, and minor the costs of dredging. Operations and maintenance annual costs are based on historical records, minor repair are shown as an annual cost based upon an assumed percentage of O&M costs. An When minor repairs and routine operation and maintenance costs are combined, the result is the The Feasibility Study EIS does discuss operations and maintenance (O & M) costs and impacts tabulated and broken out per work breakdown structure and separated into O&M costs for each transportation, dredging and miscellaneous costs, are included in the O&M cost data. Costs for complete cost of operating and maintaining the four lower Snake River dams, except for major dam. Minor and major rehabilitation costs, such as costs for navigation locks, spillways, fish additional percentage was used to cover the cost of aging equipment and increased dredging. in the cost estimate annex to Appendix E of the LSR study

repair, replacement and rehabilitation (O,M,R,R&R) that would be incurred under Alternatives 1 Replacement and Rehabilitation discusses avoided costs for dam-related operation, maintenance, The Economic Appendix, Section 3.8.4.2 Dam-Related Operation, Maintenance, Repair, through 3 include, but not limited to:

 Approximately \$7.7 million to operate and maintain the dams (i.e., average annual operation and maintenance costs); and

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Approximately \$3.1 million to operate and maintain the navigation system (i.e., average annual costs for bck operation and maintenance, dredging and other items related to navigation).

studies and investigations linked directly to the Corps dredging authorities and projects, and these considered to continue in some fashion and was included in several areas of the Feasibility Study, dredging and individual documents supporting 40 Code of Federal Regulations, Part 230, Section Lower Granite pool. Results from this investigation can be found in the Feasibility Study and this sampled sediments between the Port of Lewiston and the confluence of the Snake and Clearwater sediment study was repeated in 1999. Prior to the completion of the Feasibility Study document Historical environmental impacts associated with dredging are references in the Alternative One area. Several factors may have a relationship to this trend and this is discussed in the Feasibility The Record of Decision for the Feasibility Study will discuss dredging and is supported by the 404(b)(1) evaluations for specific dredge operations. The special tests conducted for this study report. Over a period of 15 years when the Corps dredging teams tested the compounds in the confluence of the Snake and Clearwater River. In 1990 and 1997 Corps sediment surveys for organic compounds. In the sediment analysis studies for 1984 and 1985 for interim dredging For example, Appendix C, Water Quality Appendix discusses water quality and cites several chlorinated pesticides at port areas on the lower Snake and Columbia rivers. Since the early included collection of sediment samples downstream of the previous sediment samplings. In 1998, the Corps embarked upon its own Dredged Material Management Program study. The Lower Granite confluence area, there was a steady decrease of PAHs in the sediments of this The Walla Walla District study (Sediment Sampling of Proposed Dredge Sites in the 1980s, the Walla Walla District monitored sediment prior to dredge operations for a suite of the Corps evaluated sediments for the proposed fiscal year 2001 confluence dredging in the approved sediment test framework to address methods and procedures for testing. Another products resulting from the endeavor will include a programmatic manual and a regionally evaluations as it is the existing systems alternative in the Feasibility Study. Dredging was The results of the sediment analysis are summarized below for each parameter and predominantly focus on the Snake and Clearwater confluence area. Corps has historically (Corps, 1986, 1987), the Corps sampled sediments between the Port of Lewiston and the information located in the Feasibility Study and incorporates information from this study. Confluence of the Stake and Clearwater Rivers, Pinza et al., [1992]) tested 19 sites for described in detail in Appendix C, Water Quality, Section 3.3 Sediment Quality.

maintain navigation channels affects the hydrology of the river channel and disturbs the channel which can scour the bottom and shoreline. Dredging also disturbs sediments that may contain toxic substances that can be harmful to plants and animals. Before dredging, the Corps typically products to market. Many large vessels and barges travel up and down the river daily, requiring The Feasibility Study also discusses dredging issues in the navigation/transportation section of bottom. It can increase the velocity of the current and the movement of suspended sediments Wheat growers and many industries along the river depend on it to transport their channels deep enough for them to navigate (see Section 4.9, Transportation). Dredging to ests for the presence of contaminants, the EIS.

Additionally, Appendix M of the Feasibility Study EIS, the Fish and Wildlife Coordination Act discusses dredging. The lower Snake River pools have often been operated at the MOP+1 foot assessment for dredging of shoats in the Lower Granite and Little Goose pools to provide the (0.3048 m) elevation to provide additional depth for navigation. This has occurred at Lower Granite, Ice Harbor, and Little Goose reservoirs. The Corps has prepared an environmental report, Section 6.1.2.5 Operation at Minimum Operating Pool (MOP)+1 foot (0.3048 m)

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Response to Comments

shoaling in the navigation channel again required dredging. Dredging is also discussed in Section pools at MOP. Under the Existing Conditions alternative, this operation would continue until authorized navigation depth of 14 feet (4.3m). This dredging would allow operation of these 12.1.1.3 Reduction of Predator Habitat,

habitat and provide more shallow sand bottomed habitat for fall chinook, as well as potential sites Dredging has been proposed at several locations in the lower Snake River reservoirs to restore dredged material be placed on riprapped areas. This would reduce available smallmouth bass material at selected riprapped shoreline sites. It would likely have to include some vegetation establishment, erosion control matting, or other measures to protect portions of the sites from for establishing riparian vegetation. The Corps should investigate the placement of dredged authorized navigation depths. The USFWS has previously recommended to the Corps that wave erosion.

Even though the Feasibility Study does discuss costs and environmental impacts, the specifics and details of future dredging operations are analyzed in this Final DMMP/EIS.

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impacts of dredging and levee construction before those projects may proceed. The Corps' failure to do so in this EIS therefore not only violates NEPA, but also the CWA. Only with knowledge in hand can the agency determine what best serves they public interest. This EIS does precisely the Thus, just like NEPA, the CWA requires the Corps to anduct a comprehensive analysis of the opposite.

Response

Throughout implementation of the DMMP, the Corps will comply with applicable water quality reviewed by appropriate water quality regulatory agencies as part of the Gean Water Act 401 specifically for each dredging site. Each proposed dredging activity and levee construction will regulations and consult with water quality regulatory agencies. The impacts of each dredging An assessment of water quality impacts has been included in Section 4.9 of the DMMP/EIS. activity will be evaluated in accordance with sampling and monitoring plans developed certification process.

Organization

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Comment 38

The Corps must evaluate impacts pursuant to EPA's 404 (b) (1) guidelines, 40 C.F.R. 230. These guidelines require, among many other things, the Corps to determine that an action will not cause or contribute to significant degradation of the waters of the United States".

Response

and a 404(b)(1) evaluation for the proposed 2002-2003 dredging is included in Appendix N. The A programmatic Section 404(b)(1) evaluation is included in Appendix I of the final DMMP/EIS, accordance with sampling and monitoring plans developed specifically for each dredging site. impacts to water quality. For each separate dredge activity the impacts will be evaluated in Corps will design proposed dredging and disposal activities to avoid or minimize adverse Each proposed dredging activity will be reviewed by appropriate water quality regulatory

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Comment 39

SOS urges the Corps to conduct its 404 (b) (1) analysis to include the rigorous evaluation required by the CWA so that the public and the decision maker may evaluate the Corps' proposal SOS reserves the right to offer comment on that document when it is released and hereby incorporates its comments on that document here. Regardless of the flaws in its NEPA analysis, based on a full and accurate accounting of its impacts.

Response

See responses to comments 37 and 38 above.

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Comment 40

The BA fails to provide an adequate basis for meaningful consultation with the NMFS, violating proposed, the conclusory statements, and lack of a cumulative effects inquiry in this BA falls far short of the ESA's requirements for biological assessments. The BA is largely a regurgiation of the ESA and its implementing regulations. Unfortunately, the poor analysis of the actions the DEIS, with no additional analysis of the potential impacts to listed salmonids. Response

biological assessment has satisfied NMFS' needs to make an informed decision on the actions National Marine Fisheries Service has issued its Biological Opinion based upon the BA, The that were proposed, consistent with the requirements of the Endangered Species Act.

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discussed. A thorough discussion of the impacts of current management practices is a necessary In addition, the baseline of the current habtat for listed salmonds in the project area is not and useful starting point for an adequate BA.

Section 3 (Affected environment) of the DMMP/EIS discusses the history and nature of the study Lower Granite Reservoir are not conducive for the preferred rearing habitat for fall chinook. Any area ranging from sediment quality to species present to water quality. In addition, Appendix K discusses the habitat preference of fall chinook salmon. Appendix F, Plate F-1 indicates the chinook, the depths of the proposed disposal areas, and the estimated deposition of silt in the mprovements that can be made to improve habitat diversity and minuic what existed prior to lower reservoir, it is understood that the current conditions in the downstream reaches of the general depths of the disposal locations. Knowing the depths and substrate preferred by fall nundation will benefit the fish using Lower Granite Reservoir.

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listed species will (for the most part) not be present in the area during dredging. See App. F. F-34. The presence or absence of listed species, however, is hardly the only relevant factor to The DEIS and the BA fail to fully address the degradation of critical habitat associated with dredging. The BA largely dismisses critical habitat considerations, however, simply because consider in a critical habitat analysis.

Response

threatened SRF chinook, threatened SRSS chinook, threatened SRB steelhead, endangered UCRS near the confluence of the Snake and Clearwater nvers. Although most endangered or threatened steelhead may rear in this area year round. However, because most of the proposed dredging area beneficial use of dredged material will have a net benefit on critical habitat for fall chinook. The Critical habitat is discussed in Appendix K. The primary dredging areas are in the main channel chinook, endangered UCR steelhead, or threatened MCR steelhead or result in the adverse modification or destruction of their Critical Habitat. The determination of no jeopardy is based National Marine Fisheries Service indicates, "The NMFS has determined that the effects of the salmonids use this area primarily as a migratory corridor, some fish including fall chinook and preferences are oriented along shorelines. Because most shoreline areas are not intended for pon the current status of the species, the environmental baseline for the action area, and the is in the main channel of the river, fewer fish use this area as rearing habitat, as most habitat dredging, but are intended for habitat creation by disposal, the DMMP/EIS indicates that proposed actions will not jeopardize the continued existence of endangered SR sockeye, ffects of the proposed actions.

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Comment 43

Further, there is a dearth of analysis on the over-wintering of sub-yearling fall chinook in the mpacted area or fall chinook spawning in the tailraces that will be dredged.

Fall chinook life history and occurrence in the project area is discussed in detail in Section 3.1 of the DMMP/EIS, in Appendix F, pages F41-44 and in Appendix K, pages K3-7. Research from regionally recognized experts has been cited on more than 20 instances. Spawning in the tailraces lypically not preferred by subyearling chinook based on velocity and substrate characteristics. As reasonable and prudent measures under section C.2.5, includes examining the backwater habitats distributions of rearing salmonids, and habitat use. However, in the BA the Corps has stated that dredging is not expected to impact these fish. However, Easterbrooks found subyearling chinook part of the monitoring plan outlined in the NMFS Biological Opinion for the DMMP, one of the spawning in those locations. Fall chinook typically rear along shorelines, and mainstem channel of the dams was studied for 4 years, determining where spawning was possible and if fish were in the backwaters of McNary Reservoir during the late-winter and early-spring (1995). It is not known if there will be any impact to fish using boat basins or imigation intakes. These areas are dredging and dredged material management will likely adversely affect fall chinook because of in the proposed dredging areas prior to dredging to determine the spatial and temporal these data collected by the state of Washington.

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Organization Save our Wild Salmon Coalkion Comment 44

The document (DEIS) minimizes or ignores much of the guidance outlined in these documents (recent documents serving as a basis for salmon recovery in the Columbia Basin) This is especially clear in respect to the Federal Caucus' document, "Conservation of Columbia Basin: Salmon Recovery Strategy." The DEIS ignores the issue of sustainability.

Response

The consistency with the Salmon Recovery Strategy is included in the habitat efforts covering three areas: irbutary streams; the estuary; and the mainstem rivers. Efforts to improve habitat in the mainstem rivers include creating habitat areas for fish. While dredging is not expected to negatively impact the Critical Habitat for endangered species (NMFS Biological Opinion 2002), it is expected to increase habitat for fall chinook. This technique, backed up by many years of research dating back to 1986, and a Reasonable and Prudent Messure in the BIOP to examine the continued viability of test disposal sites and newly created disposal sites, is directly in accordance with the Salmon Recovery Strategy.

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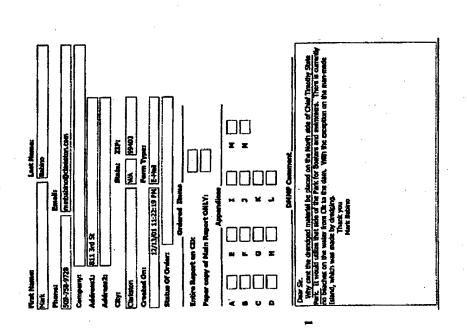
Comment 45

In the Corps'analysis of the socio-economic effects of the proposed dredging, there is no analysis of the costs to the fishing communities for going ahead with this project. Section 4.g at p.51. A complete analysis would include effects to both local sportfishing and down river commercial fishing communities.

The proposed action, which includes the proposed beneficial use of dredged materials and the measures outlined in NMFS' Biological Opinion, would not significantly impact anadromous fisheries (see Appendix F). Dredging and dredged material management, as proposed in the DMMP, would have temporary, minor effects on fish resources, and may have notable benefits to anadromous fishes through creation of favorable habitats. In addition, maintaining boat basins would allow for continued boat-based recreational fishing.

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Appendix O Response to Comments

Commenter Mark Babino

Comment 1

Why can't the dredged material be placed on he North side of Chief Timohy State Park? Response

Presponse.

The river channel by Silcott Island (at Chief Timothy State Park) is already constricted by the presence of the island. Adding fill material in this area would further constrict the channel and may contribute to higher water surface profiles upstream in both the Snake and Clearwater rivers at Lewiston. This could increase the chance of flood damages if floodwaters approach the top of the Lewiston levees during high runoff flood events. Additionally, dredged material deposited on the north side of the island would be subject to higher velocity flow conditions and would not stay in place unless it were protected by riprap or a cobble blanket.

U.S. Army Corps of Engineers Walla Walla District

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O-134

Draft Dredged Material Management Plan and Environmental Impact Statement McNary Reservoir and Lower Snake Rivar Reservoirs

COMMENT CARD

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DEPARTMENT OF THE ARMY WALLA WALLA DISTRICT CORPS OF ENGINEERS C/O DREDGED MATERIAL MANAGEMENT PLAN 201 NORTH THIRD AVENUE WALLA WALLA WA 98362-1878



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O. 135

REMARKS: (Continued)

ment Plan for the lower Snake River Reservols Remarks on the Draft Drodged Material Mana

tessible/practical to develop small streams beds a few bracted yards long up a half saile or so along the edge of the reservoir and supply water for the streams from low lift pumps or weier piped from the dams. The streams could provide fish habitat and for natural reproduction areas for steelhead and salmon. For some time I've thought that there may be areas along the Snake River Reservoirs where it could/would be

I stituteded the Coops of Engineers presentation of the DDMIMP at Columbia Basin College on Dec 12th, 2001

where I talked with Jack Sanda Sieve Fink, and Julie Davin. They were very countoous and knowledgeable. I saked them if they were swart of any cornideration of using the deviged naterial to from small stream bods along the sides of the reservoirs. They said they were not aware of any considerations for such possibility, and that it would obviously be more could be dump the develded material above the reservoir fevel but that it may merit considerations from a fish habit standpoint. ı

I suggest/request that forming small stream bods along the reservoir, either on the existing above line or using the dredged mappial be considered. 1-1

Larry J. Osmon

1205 Sunset Richiard WA 99352 509-943-1765 [ignmon@3-sities.com 12/12/2001

Larry Gannon Commenter

Comment 1

l suggest/request that forming snall stream beds along the reservoir, either on the existing shore line or using the dredged material be considered.

Juveniles of this species typically outnigrate before warm temperatures in the surmer could cause problems with fish mortality. The extended periods of rearing for spring/summer chinook, sockeye, coho and steelhead typically require a cooler environment than would be available in the some of the dams. The best potential may be for spawning channels for Snake River fall chinook. primarily the cobble and gravel that would be removed from the tailrace areas downstream from This idea has potential and could be considered under the beneficial use of dredged material, Snake River Canyon.

have had mixed success. An artificial spawning chamel was created at the Wells hatchery for summer and fall chinook salmon, but showed very poor results for spawning according to hatchery personnel queried in 1993. However, in the lower Columbia River downstream from Bonneville Dam, there is a man-made spawning channel that is successfully used for spawning by Artificial spawning channels have been created in various areas of the Columbia River Basin and Chum Salmon (WDFW).

One of the major factors affecting the success of salmon spawning is what is known as hyporheic prohibitive. However, locating a spawning area where water pumps already exist (e.g. an HMU), could reduce costs and may provide a water surply to the artificial channel. In addition, flow, or flow coming up through the gravel, which helps to incubate eggs. (Geist 1998) Where there are natural seeps and springs or through gravel flow (as in the Hanford Reach), adult fish are attracted to those locations for redd building, and high survival of eggs during incubation is thought to be typical. Repeating this in a location where there is not through gravel flow, where artificial flow would have to be engineered, would be a difficult task and possibly cost investigations into possible freeze up of these channels during the winter would need to be investigated. U.S. Army Corps of Engineers

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Draft Dradged Material Management Plan and Environmental Impact Statement McNary Reservoir and Lower Snake River Reservoirs

COMMENT CARD

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DEPARTMENT OF THE ARMY
WALLA WALLA DISTRICT CORPS OF ENGINEERS
C/O DREDGED MATERIAL MANAGEMENT PLAN
201 NORTH THIRD AVENUE
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the wanters doly the moration of the up were and down ever the dredging project will S And Control C. 445 & d the Eutere Furthermone the treastite of the and salace the dams they create Wohlen and that will the Problems REMARKS: (Continued) RIVEY, I Praject. CCAVIDACE d Steelhond & Nough worth diet 90

Commenter's Name Patrick Whitehill

Comment 1 I fear the dredging project will deter the migration of the up riverand down river steelhead and

Response

During the dredging operation, the Corps would make every effort bigistically possible to avoid salmon and steelhead individuals and runs. Some fish will be difficult to avoid, but the dredging technique that the Corps has proposed (clamshell) has the least potential of caphring fish. The amount of turbidity and contaminants is not expected to be a problem for most fish during the dredging periods. Dredging the channel to a depth of 16 feet is not expected to significantly change the hydraulics around the confluence area and thus not the survivability of adults or juvenile fish as they migrate through. The Corps is not proposing to dredge a bank-to-bank template in an attempt to avoid removing the fish habitat along the shorelines surrounding the

With beneficial use of disposal material and enhancing habitat, the Corps expectsto increase the survivability of salmon smolts as they grow and outmigrate, with the anticipated result of increasing runs of some salmon stocks. U.S. Army Corps of Engineers Walla Walla District

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